



January 9, 2026

**New Mexico Oil Conservation Division**

506 W. Texas Ave  
Artesia, NM 88210

RE: **Ross Draw Unit #044H - Site Characterization & Remediation Plan**

Incident Number: nAPP2508325453

GPS: 32.034744°, -103.875862°

Eddy County, New Mexico

ESRR Project No. VP-155

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of WPX Energy Permian (WPX), presents the following Site Characterization & Remediation Plan (SCRP) detailing subsequent soil sampling activities and a scope of work to address soil impacts associated with an inadvertent release of produced water and crude oil at the Ross Draw Unit #044H (Site). WPX proposes this SCR, detailing remediation objectives to mitigate environmental impacts at the Site.

**Site Location**

The Site is located in Unit D, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.034744°, -103.875862°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

**Incident Description & Background**

On March 20, 2025, a leak developed on a transfer pump, causing the release of approximately 15 barrels (bbl) of crude oil within a lined secondary containment (LSC) and adjacent production pad surfaces. A vacuum truck was immediately dispatched to the Site and recovered 15 bbls of fluids. WPX gave notice to the New Mexico Oil Conservation Division (NMOCD) on March 24, 2025, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2508325453. A Corrective Action Form C-141 (Form C-141) was later submitted on March 26, 2025. ESRR conducted initial site assessment activities and mapped the observed release footprint on March 25, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**).

**Timeline of Events**

**April 18, 2025** - ESRR performed a liner inspection of the LSC.

**June 16, 2025** - Devon requested an extension of the June 18, 2025 deadline, to allow additional time for initial delineation activities and/or remediation activities. Devon was granted a 90-day extension by the NMOCD for September 15, 2025.

**June 19, 2025** - ESRR performed initial delineation activities.

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**September 13, 2025** - Devon requested an additional extension of the June 18, 2025 deadline, to allow additional time for further delineation and/or remediation activities. Devon was granted a 90-day extension by the NMOCD for December 15, 2025.

**October 1, 2025** - ESRR performed additional delineation activities via mechanical equipment.

**November 2025** - Southwest Geophysical Consulting, LLC (SWC) performed an Environmental Karst Study (EKS).

**December 15, 2025** - Devon requested a final extension of the December 15, 2025 deadline, to allow additional time for remediation activities. NMOCD denied the request and stated the following:

- *“The extensions request is denied. Due to the two previous extension request approvals, a third cannot be granted. The second and final extension request was granted on 9/15/2025.”*

**Site Characterization**

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

- Between 1,000 feet and ½ mile of any continuously flowing watercourse or any other significant watercourse;
- Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Greater than 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Between 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between 1 and 5 miles of any other freshwater well or spring;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1,000 feet and ½ mile of any wetland;
- Greater than 5 miles of any subsurface mine;
- Between 1,000 feet and ½ mile of an unstable area (non-karst); and
- Greater than 5 miles of a 100-year floodplain.

Based on the results from the EKS Report, SGC determined the following:

- *“No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.*
- *No anomalies consistent with subsurface air- or water-filled voids were found within the RD44 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.*
- *Moderately well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.”*

Receptor details used to determine the Site characterization are included in **Figure 1A** and **Figure 1B**. The **Environmental Karst Study Report** and **Referenced Well Records** for the closest depth to water well is attached.

Based on SGC’s EKS Report and DTW estimated to be greater than 100 feet below ground surface (bgs), the following Closure Criteria was applied:

| <b>Constituents of Concern (COCs)</b>                    | <b>Closure Criteria<sup>‡</sup></b>   |
|--|---------------------------------------|
| Chloride   | 20,000 milligram per kilogram (mg/kg) |
| Total Petroleum Hydrocarbon (TPH)                        | 2,500 mg/kg                           |
| TPH (GRO)+ TPH (DRO)                                     | 1,000 mg/kg                           |
| Benzene  | 10 mg/kg                              |
| Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) ... | 50 mg/kg                              |

<sup>‡</sup>*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 (GRO) + Diesel Range Organics (DRO) + Oil Range Organics (ORO)  
 Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B*

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## Liner Inspection

On April 18, 2025, ESRR conducted a thorough visual inspection of the LSC and found signs of damage, confirming evidence of a potential breach to the LSC. The LSC failed inspection and was considered to not be performing as designed due to cuts and/ or tears observed (**Figure 2**). **Photographic Documentation** of liner inspection activities is attached.

## Delineation Activities

On June 19, 2025, ESRR conducted additional delineation activities to assess the presence or absence of residual soil impacts directly beneath the LSC and directly south of the AOC. Thirteen delineation boreholes (HA-1 through HA-12A) were advanced via hand auger. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and/ or the greatest depth. Delineation soil samples were placed directly into lab provided 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.

On October 1, 2025, ESRR performed continued delineation of soil sample locations (HA-9, HA-10, HA-12 and HA-12A) with the addition of soil sample locations (HA-13 through HA-15) via mechanical equipment, to achieve full vertical delineation and to better define the vertical and horizontal periphery of the AOC. The additional delineation soil samples were collected, handled, transported, and analyzed as previously described.

Following review of SWC's EKS Report, laboratory analytical results for all delineation soil samples were determined to be below the Site Closure Criteria and/or the reclamation standard within the top 4 feet bgs of the AOC. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 3**. **Photographic Documentation** of all activities are attached.

## Proposed Remediation Plan

Due to the active status of the production pad, the top 4 feet of the AOC is not ready to undergo complete reclamation in which the primary purpose is to reestablish vegetation. With depth to groundwater estimated to be greater than 100 feet bgs and no sensitive receptors within the established buffers in NMAC 19.15.29.12, WPX believes that a surficial scrape of the AOC, will meet the Site Closure Criteria set forth in NMAC 19.15.29.13 regulations and will be equally protective of human health, the environment, and groundwater.

- WPX proposes to perform a 2-inch surficial scrape of the AOC, resulting in approximately 30 cubic yards of soil. Soil will be treated as impacted and transported to a nearby state-regulated landfill facility for disposal under WPX approved waste manifests.
- Following the removal of soil, five-point composite soil samples will be collected at a sampling frequency of 200 square feet from the excavation floor and sidewalls and will be submitted to Eurofins in Carlsbad, New Mexico, for analysis of COCs.

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- Upon receipt of final confirmation soil sample results indicating that soil concentrations are below the Site Closure Criteria and/or the reclamation standard, WPX will have the excavation backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible.

### Proposed Schedule

WPX anticipates remediation and restoration activities to commence within 90 days of approval of this SCRP. Upon favorable laboratory analytical results of all confirmation samples, ESRR will complete a Closure Request Report detailing excavation activities and subsequent soil sampling activities for incident number nAPP2508325453.

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

Sincerely,

### EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno  
Carlsbad Operations Manager/ Project Geologist

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

Kris Williams, CHMM, REM  
Principal

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

### Attachments:

- Figure 1 - Site Map
- Figure 1A - Groundwater
- Figure 1B - Karst Potential
- Figure 2 - Release Extent
- Figure 3 - Delineation Soil Sample Locations
- Figure 4 - Proposed Excavation Extent
- Table 1 - Soil Sample Analytical Results
- Photographic Documentation
- Environmental Karst Study Report
- Referenced Well Record
- NMOCD Email Documentation & Correspondence
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports

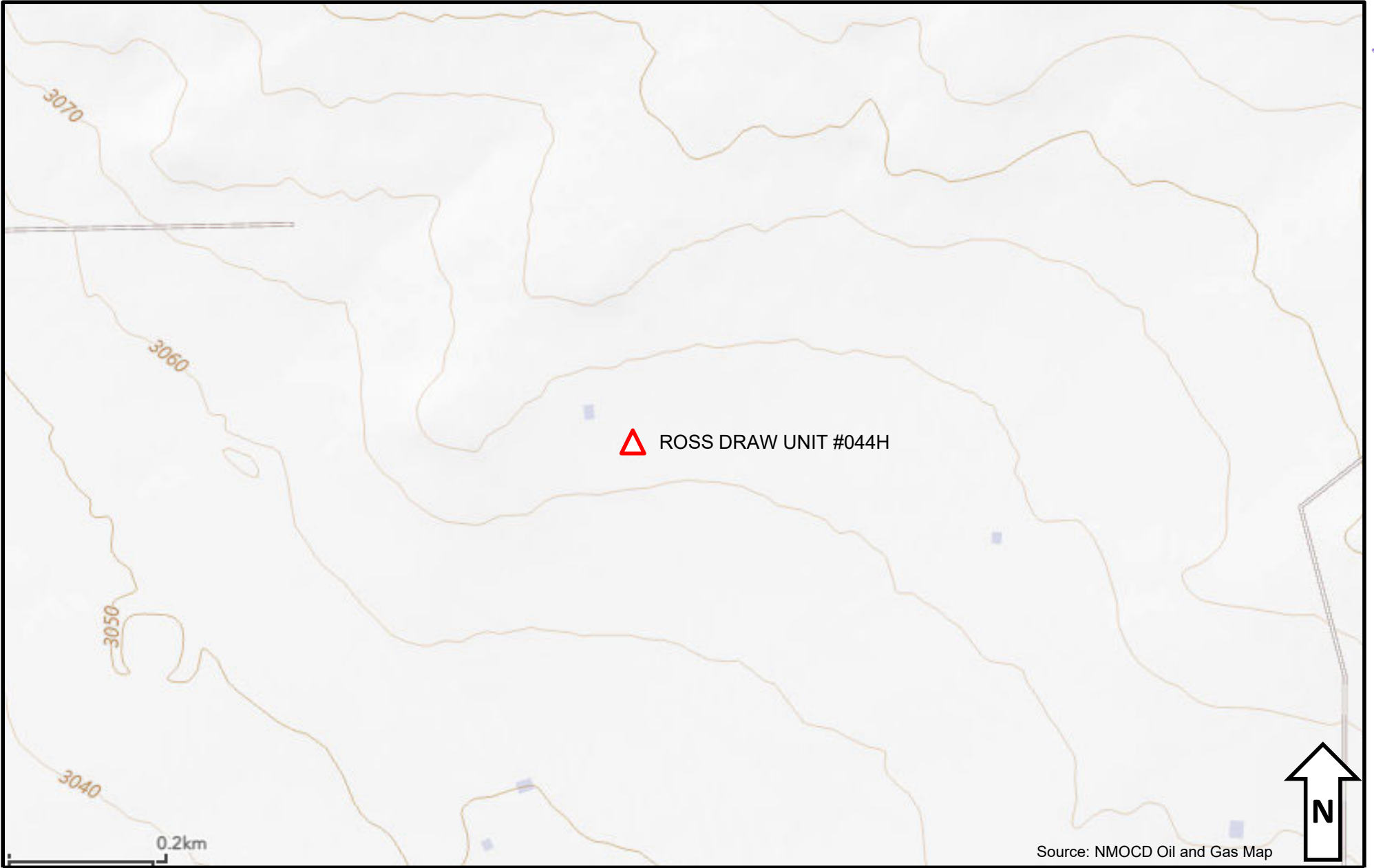


Figure 1 – Site Map

WPX Energy Permian – ROSS DRAW UNIT #044H  
 GPS: 32.034744, -103.875862  
 Eddy County, New Mexico



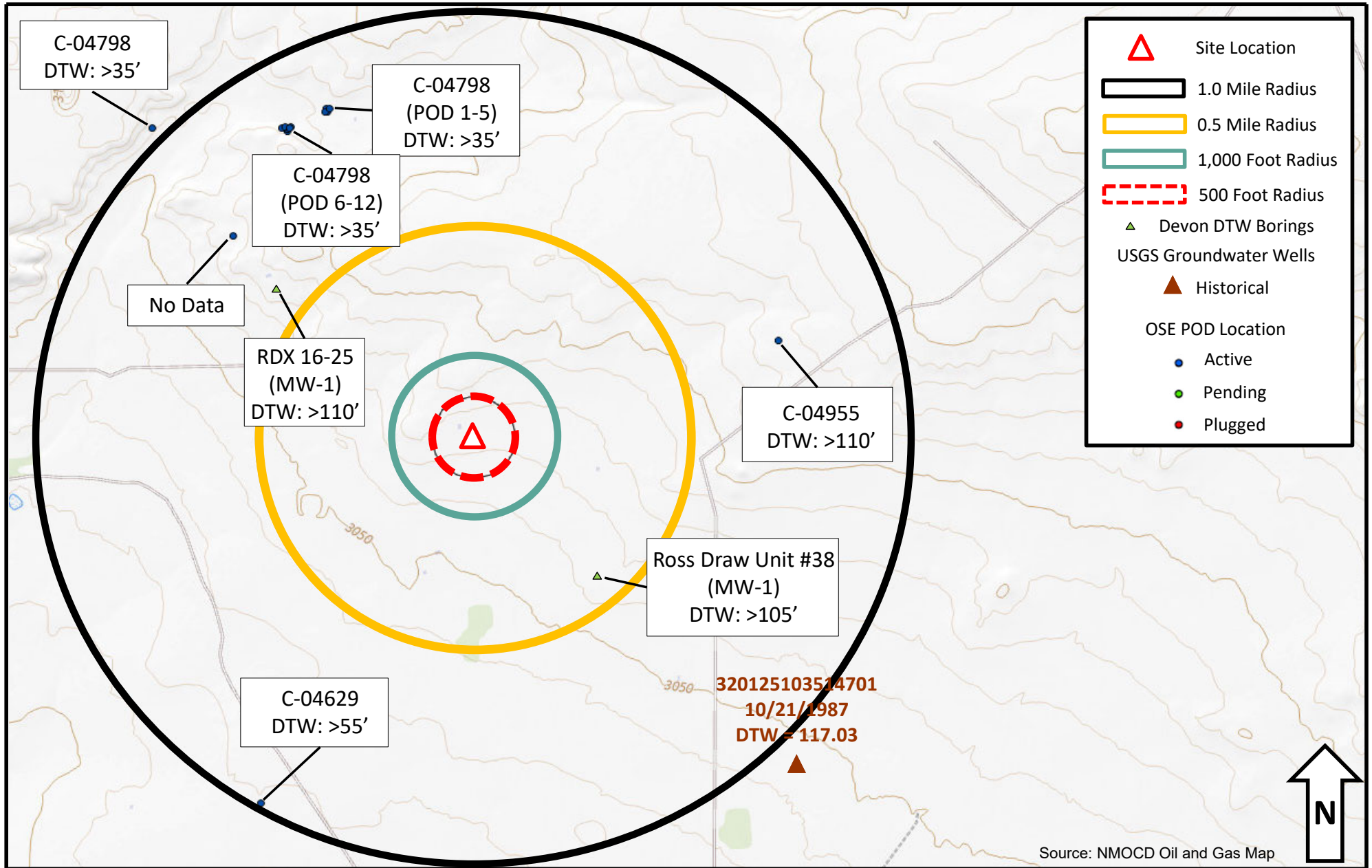


Figure 1A – Ground Water

WPX Energy Permian – ROSS DRAW UNIT #044H  
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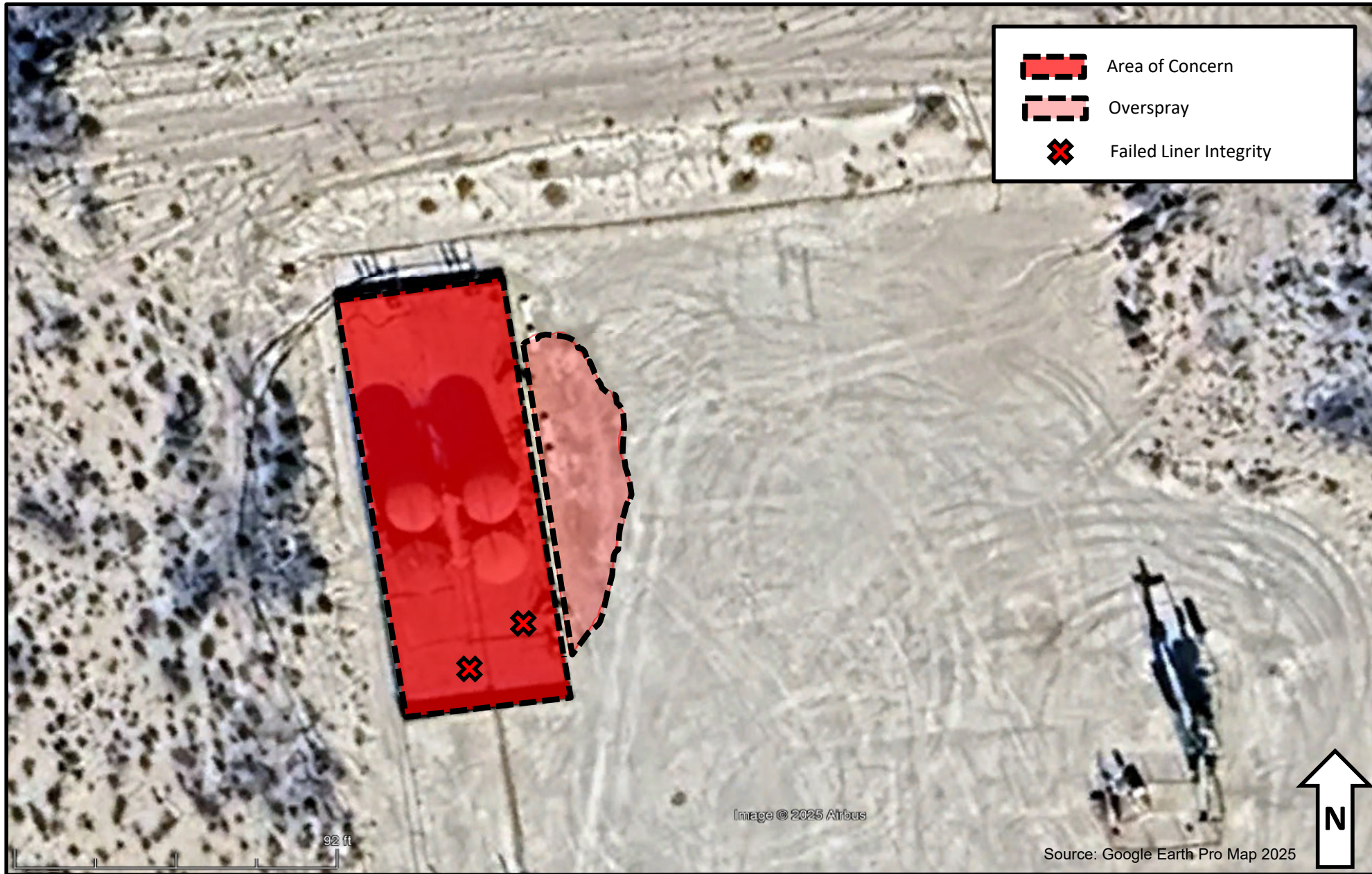




**Figure 1B – Karst Potential**

WPX Energy Permian – ROSS DRAW UNIT #044H  
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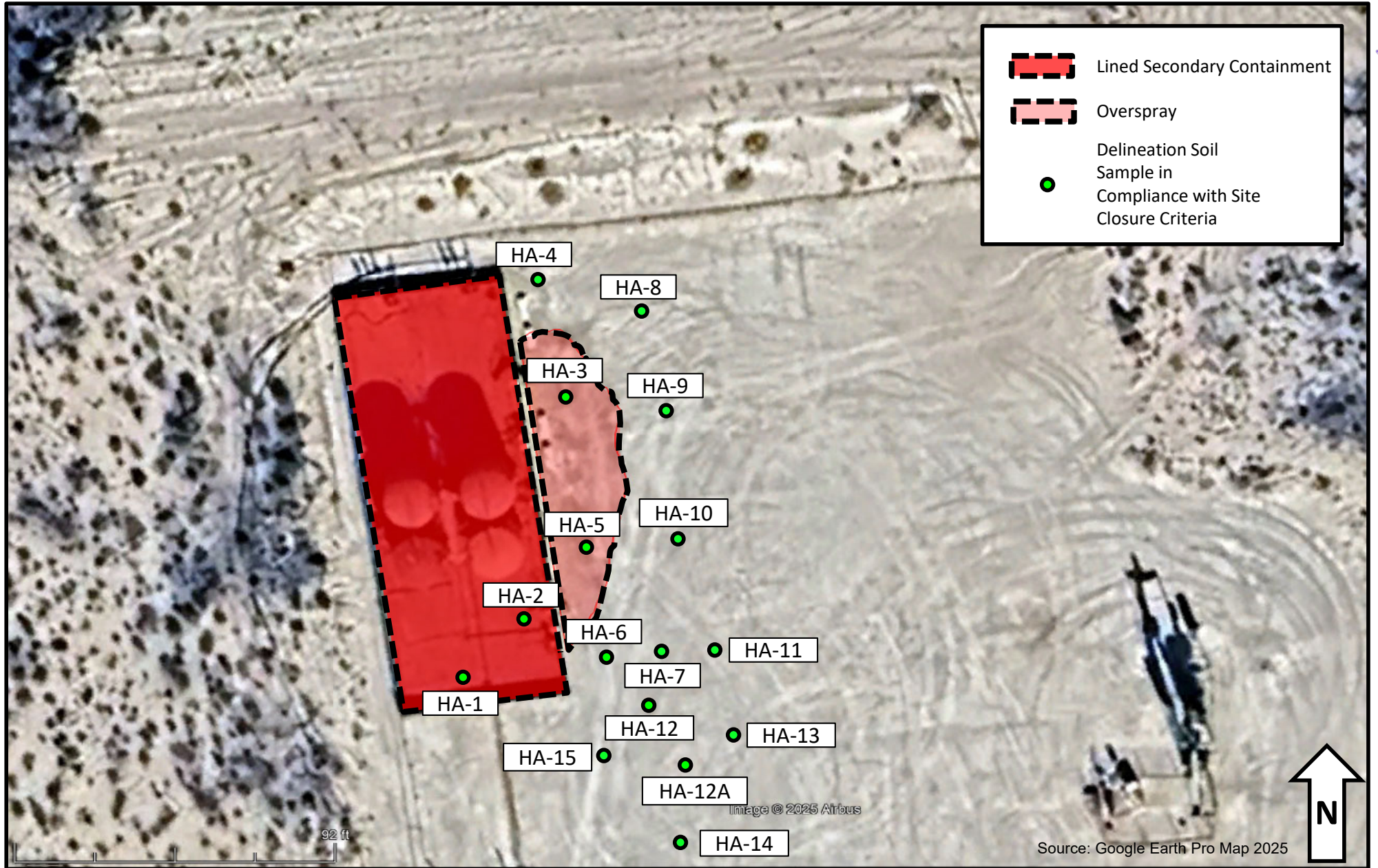




**Figure 2 – Release Extent**

WPX Energy Permian – ROSS DRAW UNIT #044H  
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**Figure 3 – Delineation Soil Sample Locations**

WPX Energy Permian – ROSS DRAW UNIT #044H  
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Eddy County, New Mexico





**Figure 4 – Proposed Excavation Extent**

WPX Energy Permian – ROSS DRAW UNIT #044H  
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| Sample I.D.  | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH ORO (mg/kg) | TPH DRO (mg/kg) | DRO+GRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| <b>Delineation Soil Samples - nAPP2508325453</b>                               |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| HA - 1   | 06/19/25    | 0.5                     | <0.00200        | <0.00401           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 100              |
| HA - 1   | 06/19/25    | 1                       | <0.00198        | <0.00396           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 86.4             |
| HA - 1   | 06/19/25    | 2                       | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 136              |
| HA - 1   | 06/19/25    | 3                       | <0.00198        | <0.00397           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 114              |
| HA - 1   | 06/19/25    | 4                       | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 131              |
| HA - 2   | 06/19/25    | 0.5                     | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 79.0             |
| HA - 2   | 06/19/25    | 1                       | <0.00200        | <0.00399           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 72.3             |
| HA - 2   | 06/19/25    | 2                       | <0.00201        | <0.00402           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 105              |
| HA - 2   | 06/19/25    | 3                       | <0.00200        | <0.00401           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 94.2             |
| HA - 2   | 06/19/25    | 4                       | <0.00201        | <0.00402           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 174              |
| HA - 3   | 06/19/25    | 0.5                     | <0.00200        | <0.00401           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 540              |
| HA - 3   | 06/19/25    | 1                       | <0.00198        | <0.00396           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 373              |
| HA - 3   | 06/19/25    | 2                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 994              |
| HA - 3   | 06/19/25    | 3                       | <0.00198        | <0.00397           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 1220             |
| HA - 3   | 06/19/25    | 4                       | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 1,150            |
| HA - 3   | 10/01/25    | 6                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 493              |
| HA - 4   | 06/19/25    | 0.5                     | <0.00199        | <0.00398           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 104              |
| HA - 4   | 06/19/25    | 2                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 105              |
| HA - 4   | 06/19/25    | 3                       | <0.00201        | <0.00402           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 129              |
| HA - 4   | 10/01/25    | 6                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 419              |
| HA - 5   | 06/19/25    | 0.5                     | <0.00200        | <0.00401           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 2,150            |
| HA - 5   | 06/19/25    | 1                       | <0.00201        | <0.00402           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 520              |
| HA - 5   | 06/19/25    | 2                       | <0.00201        | <0.00402           | <50.3           | <50.3           | <50.3           | <50.3           | <50.3             | 271              |
| HA - 5   | 06/19/25    | 3                       | <0.00202        | <0.00403           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 635              |
| HA - 5   | 06/19/25    | 4                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 635              |
| HA - 5   | 10/01/25    | 6                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 1,280            |
| HA - 5   | 10/01/25    | 8                       | <0.00198        | <0.00396           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 2,000            |
| HA - 5   | 10/01/25    | 10                      | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 363              |

**Table 1A**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**ROSS DRAW UNIT #044H**  
**Eddy County, New Mexico**

| Sample I.D.  | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH ORO (mg/kg) | TPH DRO (mg/kg) | DRO+GRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| <b>Delineation Soil Samples - nAPP2508325453</b>                               |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| HA - 6   | 06/19/25    | 0.5                     | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 2,150            |
| HA - 6   | 06/19/25    | 1                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 953              |
| HA - 6   | 06/19/25    | 2                       | <0.00198        | <0.00396           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 183              |
| HA - 6   | 06/19/25    | 3                       | <0.00201        | <0.00402           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 302              |
| HA - 6   | 06/19/25    | 4                       | <0.00201        | <0.00402           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 92.0             |
| HA - 7   | 06/19/25    | 0.5                     | <0.00200        | <0.00401           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 194              |
| HA - 7   | 06/19/25    | 1                       | <0.00198        | <0.00396           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 411              |
| HA - 7   | 06/19/25    | 2                       | <0.00201        | <0.00402           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 97               |
| HA - 7   | 06/19/25    | 3                       | <0.00201        | <0.00402           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 534              |
| HA - 7   | 06/19/25    | 4                       | <0.00200        | <0.00401           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 246              |
| HA - 8   | 06/19/25    | 0.5                     | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 77.3             |
| HA - 8   | 06/19/25    | 2                       | <0.00200        | <0.00401           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 104              |
| HA - 8   | 06/19/25    | 4                       | <0.00202        | <0.00403           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 188              |
| HA - 9   | 06/19/25    | 0.5                     | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 99.2             |
| HA - 9   | 06/19/25    | 2                       | <0.00198        | <0.00396           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 120              |
| HA - 9   | 06/19/25    | 4                       | <0.00201        | <0.00402           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 141              |
| HA - 9   | 10/01/25    | 6                       | <0.00201        | <0.00402           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 440              |
| HA - 10  | 06/20/25    | 0.5                     | <0.00200        | <0.00401           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 79.7             |
| HA - 10  | 06/20/25    | 2                       | <0.00199        | <0.00398           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 131              |
| HA - 10  | 06/20/25    | 4                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 89.9             |
| HA - 10  | 10/01/25    | 6                       | <0.00202        | <0.00404           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 586              |
| HA - 10  | 10/01/25    | 10                      | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 259              |
| HA - 11  | 06/20/25    | 0.5                     | <0.00200        | <0.00399           | <49.7           | <49.7           | <49.7           | <49.7           | <49.7             | 401              |
| HA - 11  | 06/20/25    | 2                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 428              |
| HA - 11  | 06/20/25    | 4                       | <0.00198        | <0.00396           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 156              |
| HA - 12  | 06/20/25    | 0.5                     | <0.00201        | <0.00402           | <50.2           | <50.2           | <50.2           | <50.2           | <50.2             | 138              |
| HA - 12  | 06/20/25    | 2                       | <0.00202        | <0.00403           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 2,860            |
| HA - 12  | 06/20/25    | 4                       | <0.00199        | <0.00398           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 3,200            |
| HA - 12  | 10/01/25    | 6                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 132              |
| HA - 12A   | 06/20/25    | 0.5                     | <0.00200        | <0.00401           | <49.6           | <49.6           | <49.6           | <49.6           | <49.6             | 197              |
| HA - 12A   | 06/20/25    | 2                       | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 752              |
| HA - 12A   | 06/20/25    | 4                       | <0.00199        | <0.00398           | <50.1           | <50.1           | <50.1           | <50.1           | <50.1             | 959              |
| HA - 12A   | 10/01/25    | 6                       | <0.00199        | <0.00398           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 99.1             |



Table 1A  
SOIL SAMPLE ANALYTICAL RESULTS  
ROSS DRAW UNIT #044H  
Eddy County, New Mexico



| Sample I.D.  | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH ORO (mg/kg) | TPH DRO (mg/kg) | DRO+GRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29) |             |                         | 10              | 50                 | NE              | NE              | NE              | 1,000           | 2,500             | 20,000           |
| Delineation Soil Samples - nAPP2508325453                                      |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| HA - 13  | 10/01/25    | 0.5                     | <0.00198        | <0.00396           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 513              |
| HA - 13  | 10/01/25    | 4                       | <0.00201        | <0.00402           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 278              |
| HA - 13  | 10/01/25    | 6                       | <0.00200        | <0.00399           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 247              |
| HA - 14  | 10/01/25    | 0.5                     | <0.00202        | <0.00404           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 276              |
| HA - 14  | 10/01/25    | 4                       | <0.00199        | <0.00398           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 155              |
| HA - 14  | 10/01/25    | 6                       | <0.00200        | <0.00399           | <49.9           | <49.9           | <49.9           | <49.9           | <49.9             | 123              |
| HA - 15  | 10/01/25    | 0.5                     | <0.00201        | <0.00402           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 326              |
| HA - 15  | 10/01/25    | 4                       | <0.00202        | <0.00404           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | 299              |
| HA - 15  | 10/01/25    | 6                       | <0.00199        | <0.00398           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 97.0             |

## 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<sup>1</sup> for Soils Impacted by a Release<sup>1</sup>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.

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°



PHOTO 1: Southeastern view during initial site assessment activities. 3/25/2025



PHOTO 2: Northwestern view during initial site assessment activities. 3/25/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

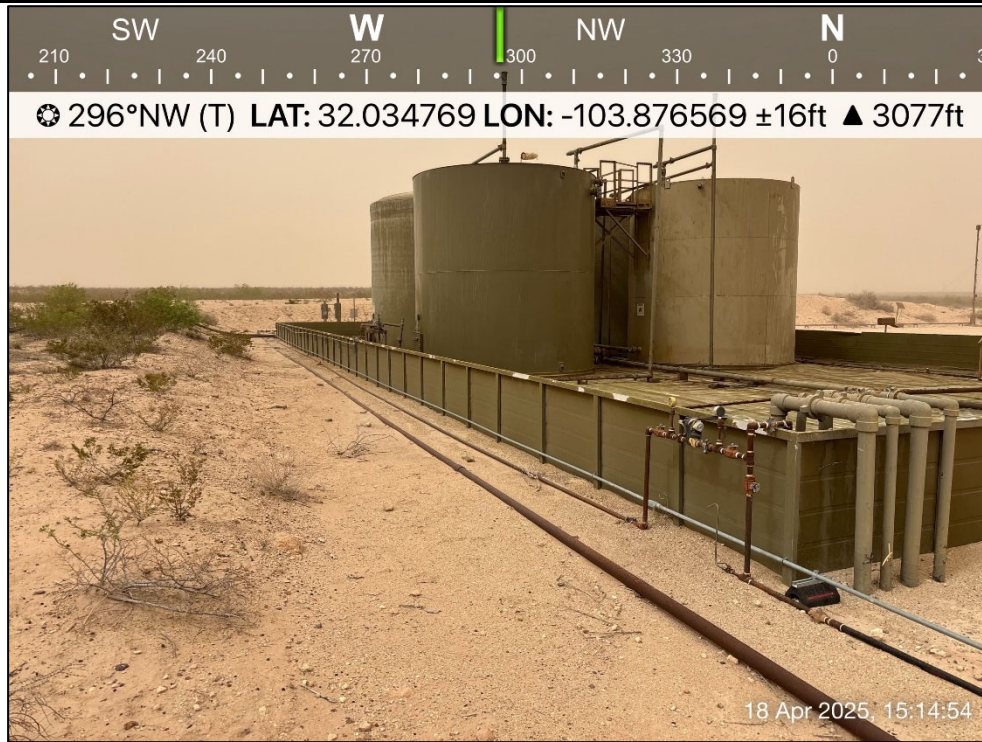


PHOTO 3: Southeastern view outside of the containment during liner inspection activities. 4/18/2025

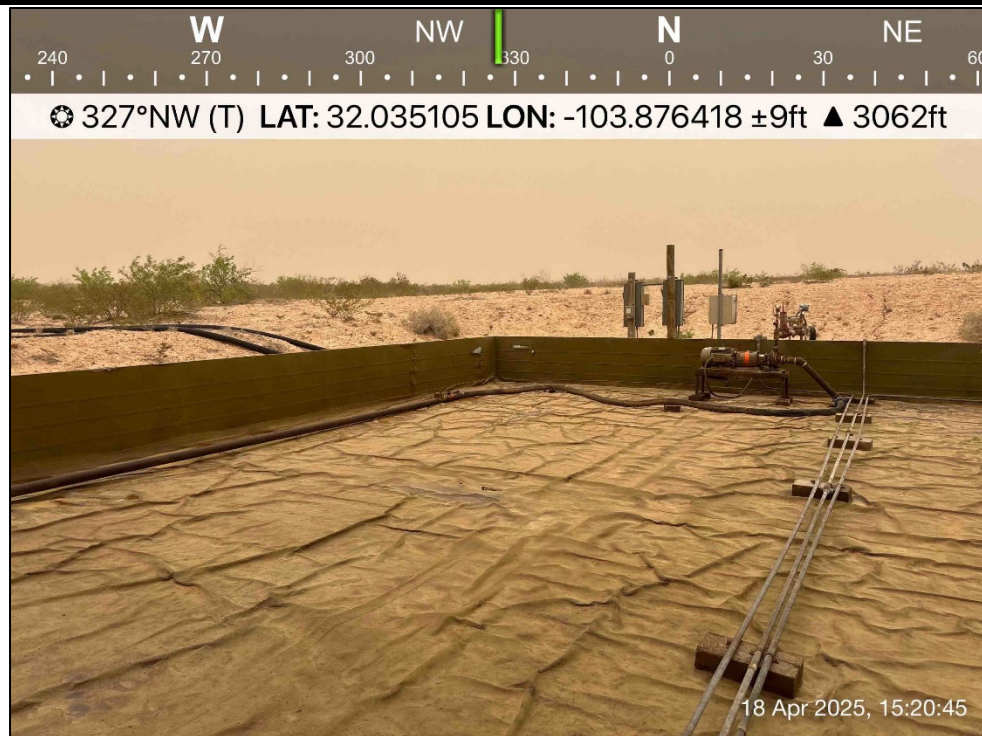


PHOTO 4: Southeastern view outside of the containment during liner inspection activities. 4/18/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°



**PHOTO 5:** Northwestern view outside of the containment during liner inspection activities. 4/18/2025



**PHOTO 6:** Northwestern view during liner inspection activities. 4/18/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

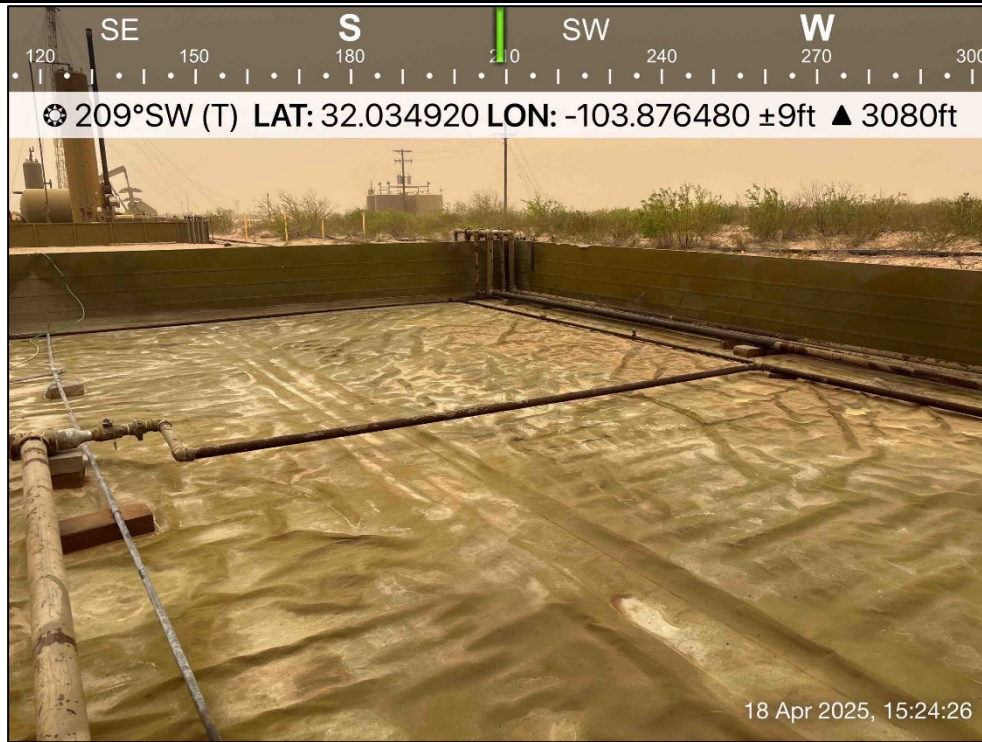


PHOTO 7: Southwestern view during liner inspection activities. 4/18/2025



PHOTO 8: Southeastern view during liner inspection activities. 4/18/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

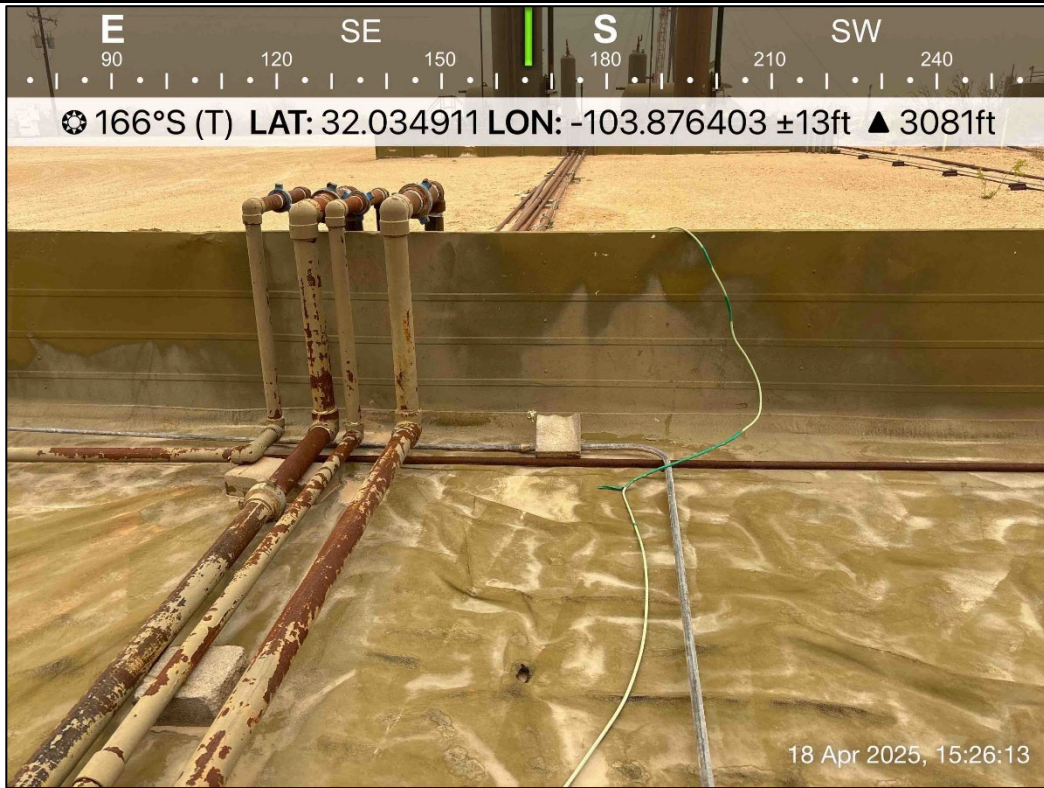


PHOTO 9: Southeastern view of failed liner integrity. 4/18/2025



PHOTO 10: Southeastern view of failed liner integrity. 4/18/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

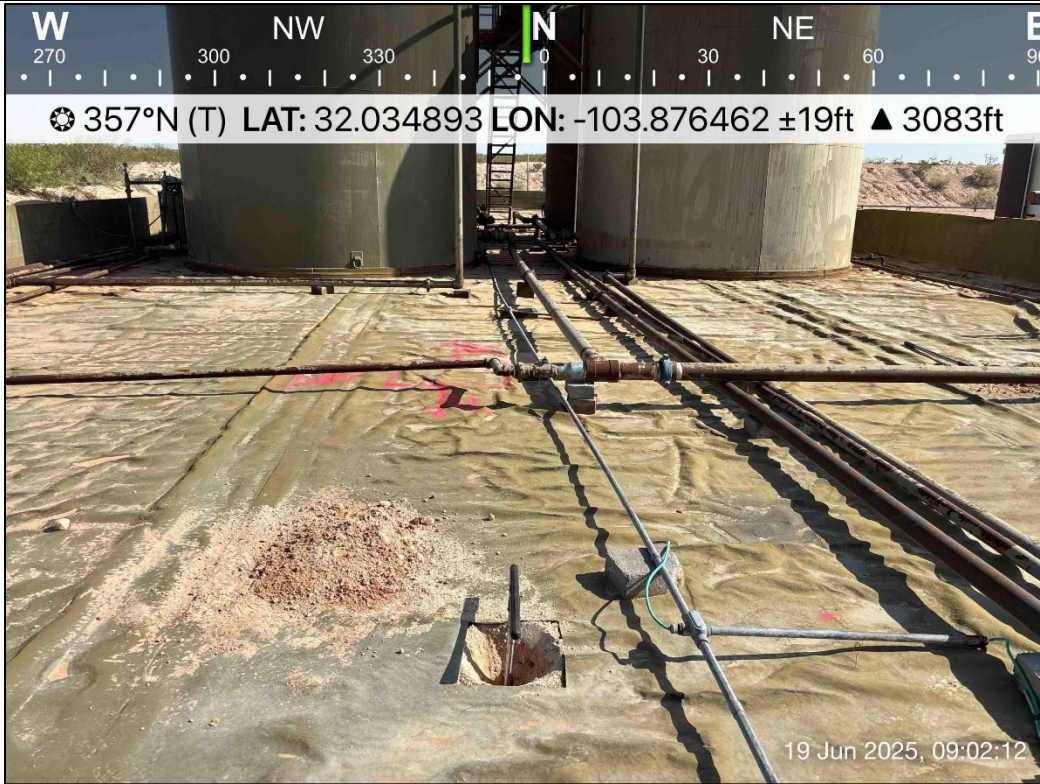


PHOTO 11: Northern view during initial delineation activities. 6/19/2025



PHOTO 12: Northern view during initial delineation activities. 6/19/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°



PHOTO 13: Northern view during initial delineation activities. 6/19/2025



PHOTO 14: Northern view during initial delineation activities. 6/19/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°



PHOTO 15: Southeastern view following liner repairs. 6/19/2025

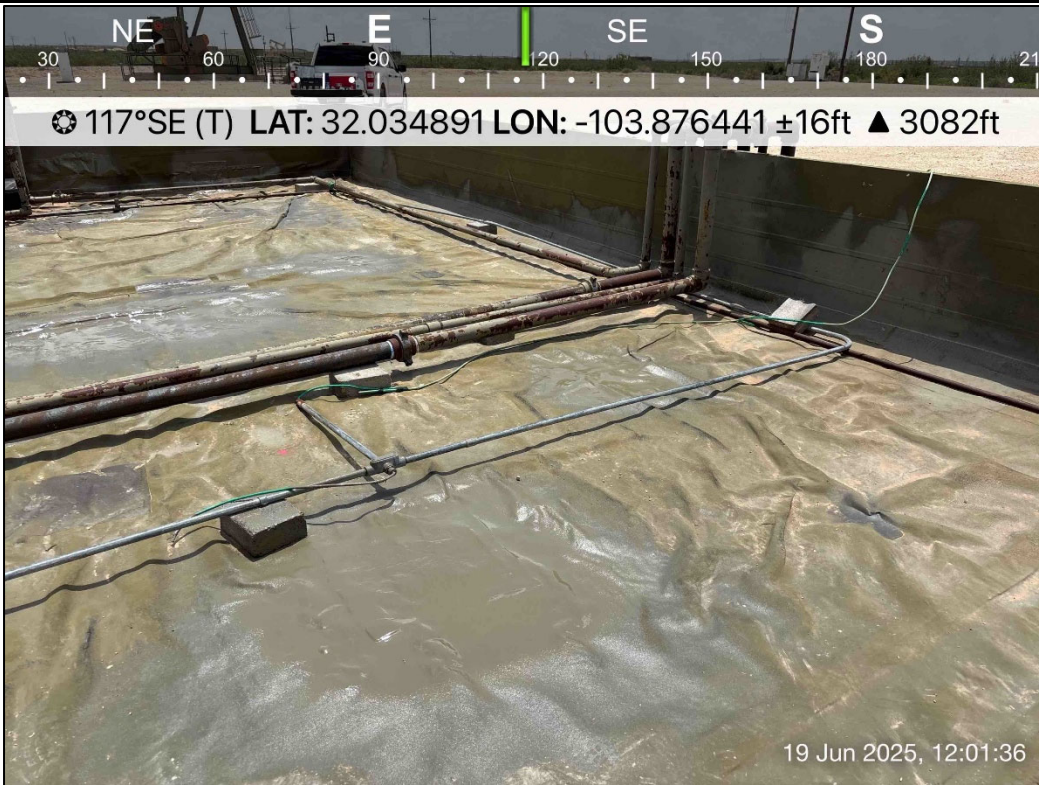


PHOTO 16: Southeastern view following liner repairs. 6/19/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

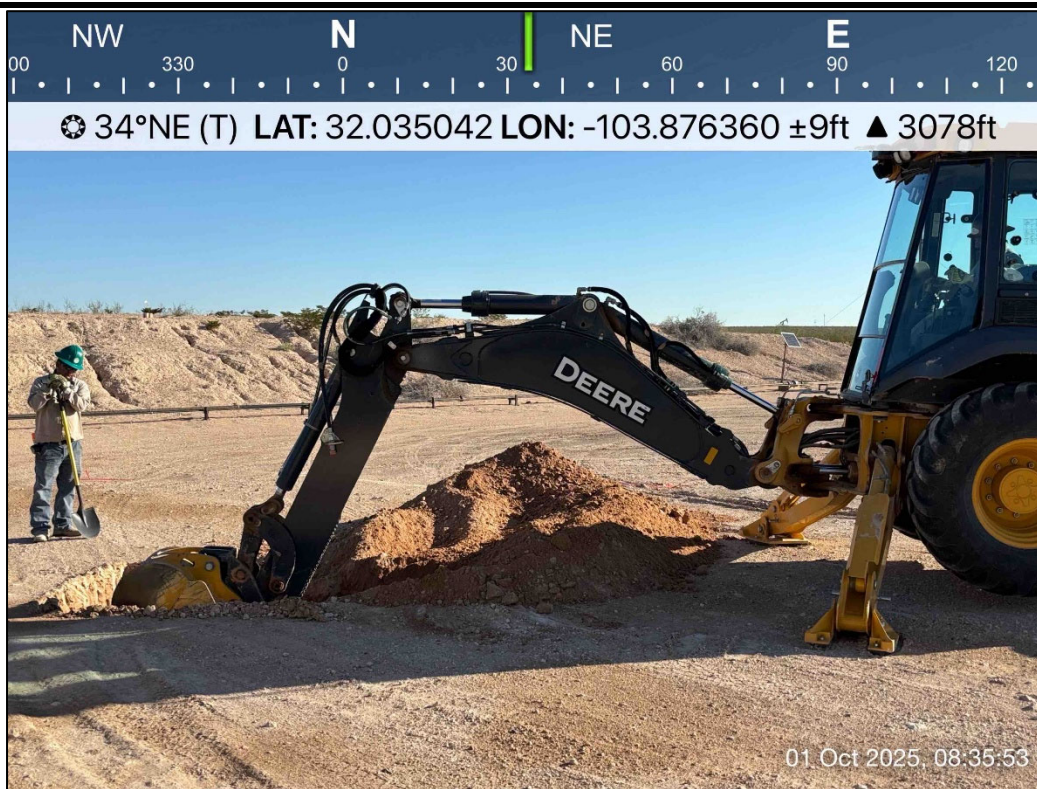


PHOTO 17: Northeastern view during additional delineation activities. 10/01/2025



PHOTO 18: Northwestern view during additional delineation activities. 10/01/2025

Ross Draw Unit #044H - Site Characterization & Remediation Plan  
Incident Number: nAPP2508325453  
32.034744°, -103.875862°

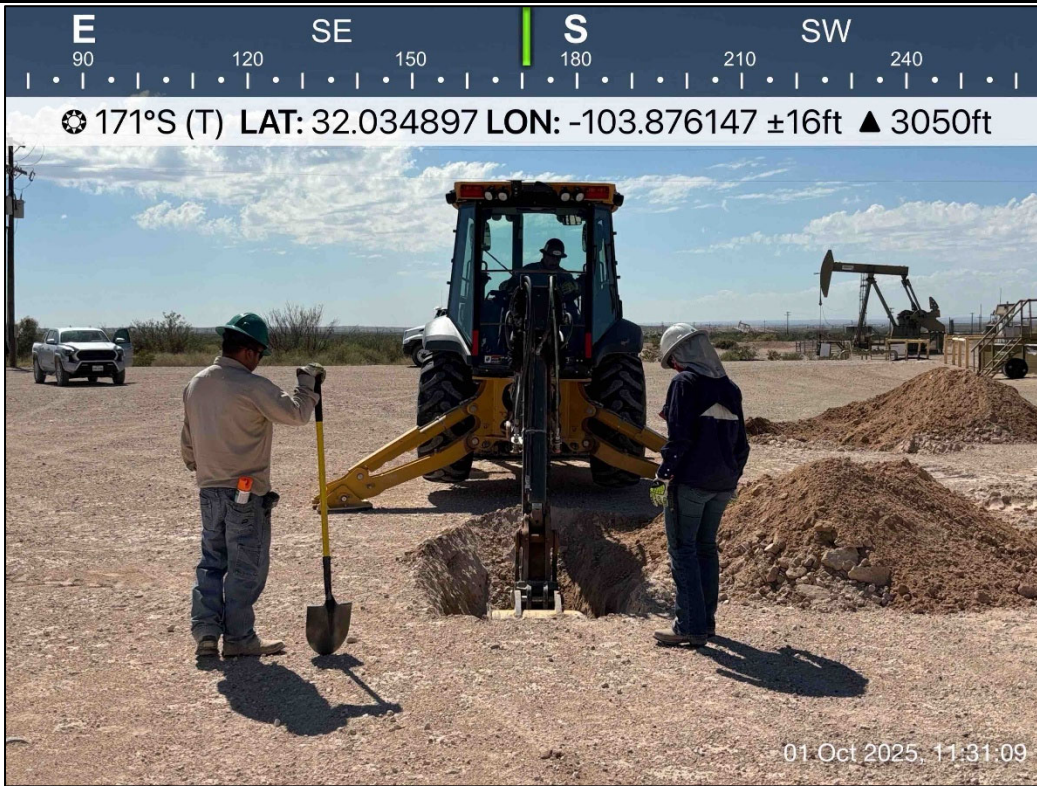


PHOTO 19: Southeastern view during additional delineation activities. 10/01/2025

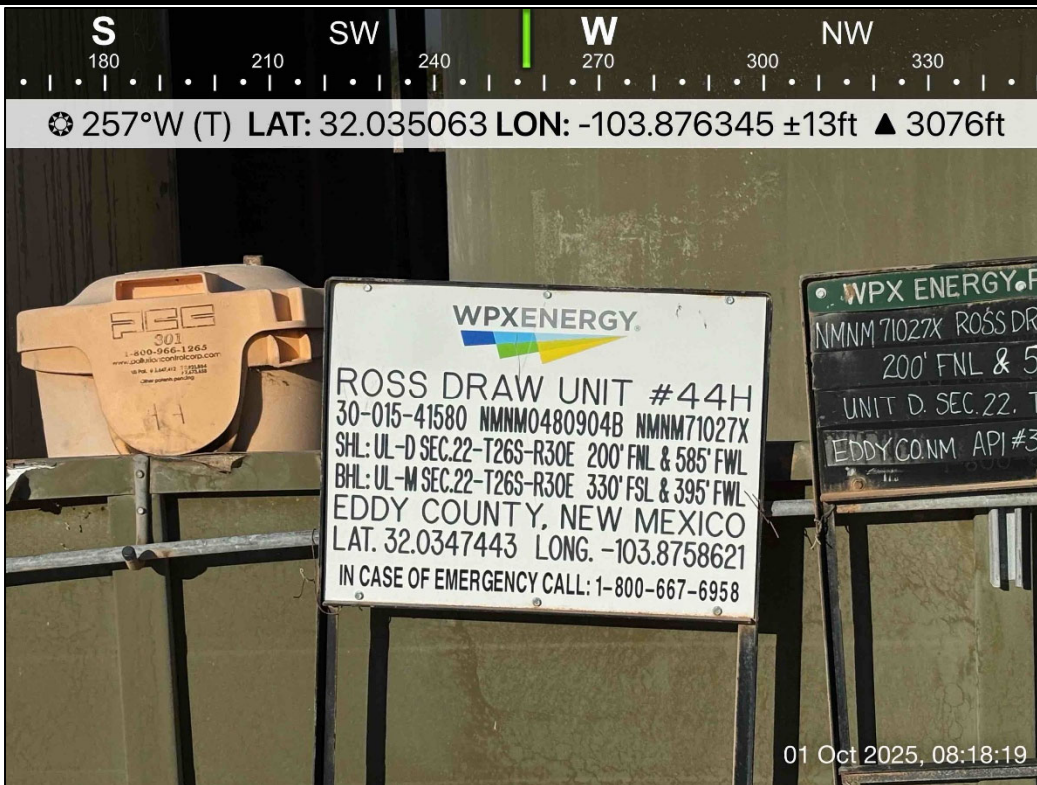
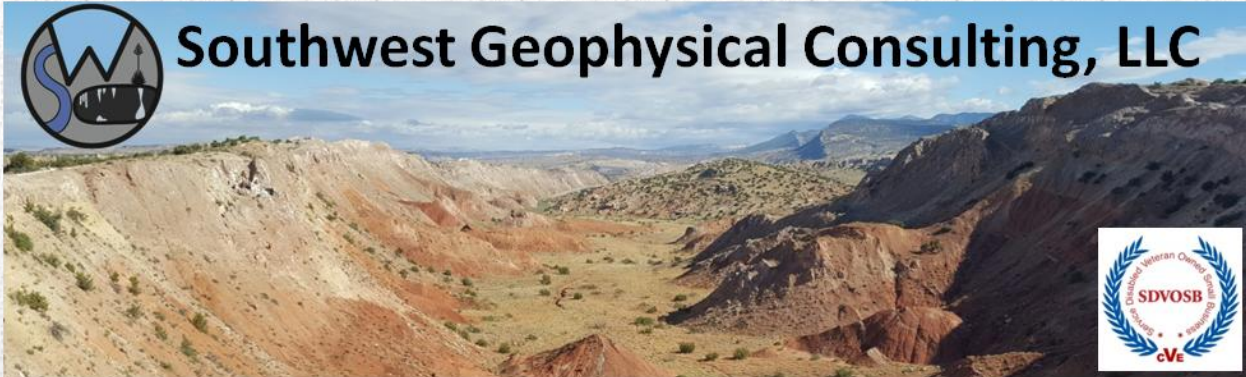


PHOTO 20: Location sign. 10/01/2025



# **Environmental Karst Study Report Devon Ross Draw Unit No. 044H Eddy County, New Mexico**

**Prepared For:  
Earth Systems, LLC  
1910 Resource Court  
Carlsbad, NM 88220**

**Within 200 feet of the spill delineation boundary:**

- Negative  Positive for surface karst
- Stable  Unstable Ground
- Karst Monitor Recommended

**November 11, 2025**

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**MMXXV**

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## 1.0 INTRODUCTION

This report was commissioned by Earth Systems, LLC (hereinafter referred to as "the client"), on October 28, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Devon Ross Draw Unit No. 044H release site (hereinafter termed "RD44") centered at N 32.034756° W 103.876064°.

### 1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC<sup>[1]</sup>), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions<sup>[2]</sup>) within 200 feet of the spill delineation boundary of the Devon Ross Draw Unit No. 044H release as provided by the client via e-mail (**Release Extent-RDU 44.kmz**) on October 28, 2025, using electrical resistivity imaging<sup>[3]</sup>.

### 1.2 Summary of Findings

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the RD44 geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Moderately well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

### 1.3 Affected Environment

The RD44 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers<sup>[4]</sup>. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **MEDIUM** karst occurrence zone (MKOZ)<sup>[5]</sup> (**Figure 1**).

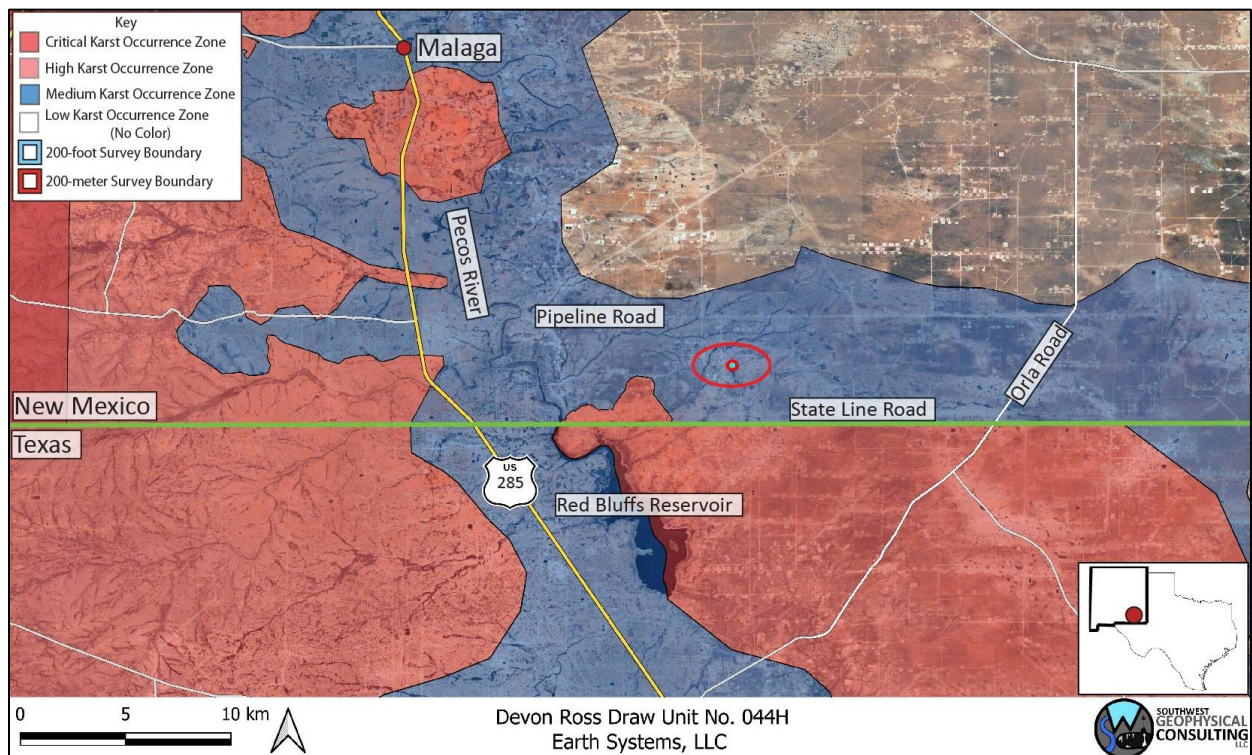


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

A medium karst occurrence zone is defined as an area in known soluble rock types that may have a shallow insoluble overburden. These areas may contain isolated karst features such as caves and sinkholes. Groundwater recharge may not be wholly dependent on karst features, but the karst features still provide the most rapid aquifer recharge in response to surface runoff<sup>[4]</sup>.

**Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO-designated karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.**

#### **1.4 Limitations of Report**

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Earth Systems, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

## 2.0 LOCATION AND DESCRIPTION OF STUDY AREA

### 2.1 Description of Site

The site is located in Eddy County, New Mexico, 28.1 kilometers (17.5 miles) southeast of Malaga, east of the Pecos River, north of State Line Road, and south of Pipeline Road. The release area is located within section 22 of NM T26S R30E<sup>[6]</sup> (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock<sup>[7]</sup> (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January<sup>[8]</sup>. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map<sup>[9]</sup> and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an MKOZ<sup>[5]</sup> (**Figure 1**) and within BLM-CFO-managed land<sup>[10]</sup> (**Figure 2**).

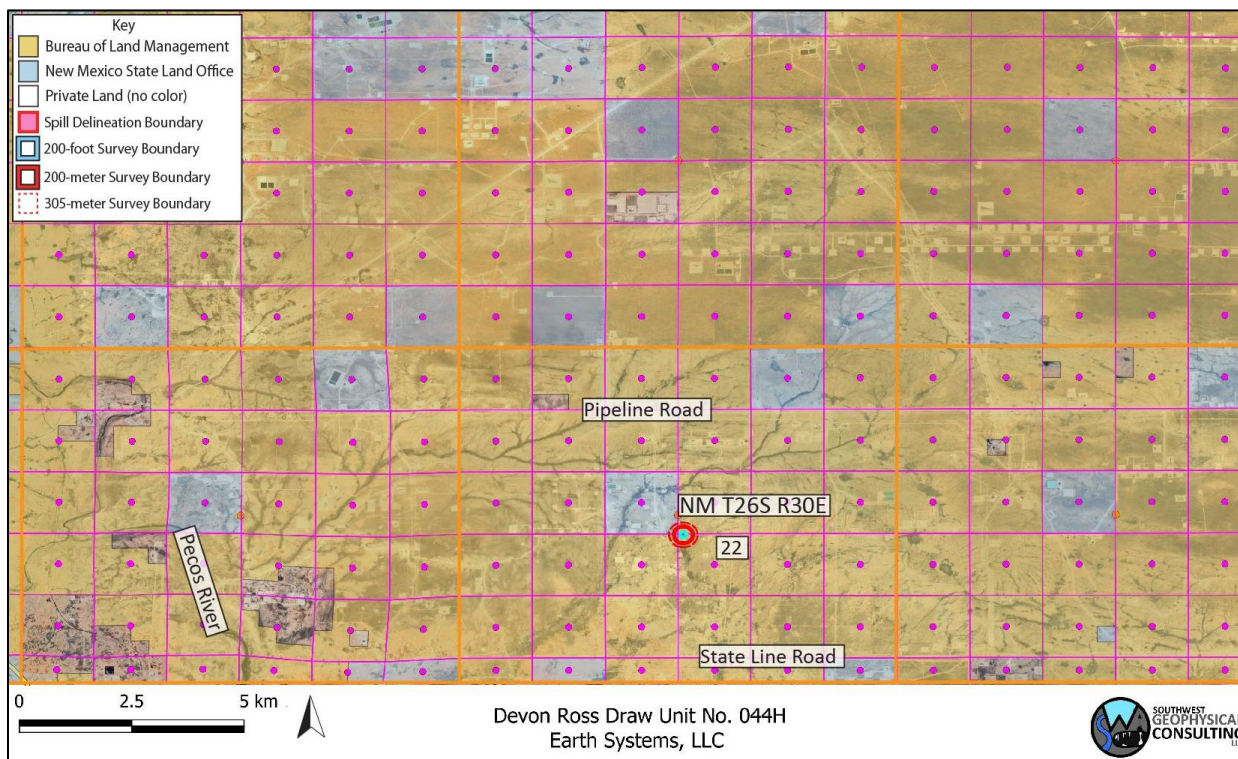


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

## 2.2 Local Geology Summary

The site for the RD44 survey is located at an elevation of 939 meters (3,079 feet), ± 2 meters (6.6 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary eolian deposits (Qe), and alluvium (Qal)<sup>[11]</sup> up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)<sup>[12]</sup>.

The Pru overlies the Permian Salado Formation (Psl – not shown in the below image), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface<sup>[12]</sup>. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation<sup>[13]</sup>.

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale<sup>[14]</sup> and the Digital Geologic Map of New Mexico in ARC/INFO Format<sup>[11]</sup>.

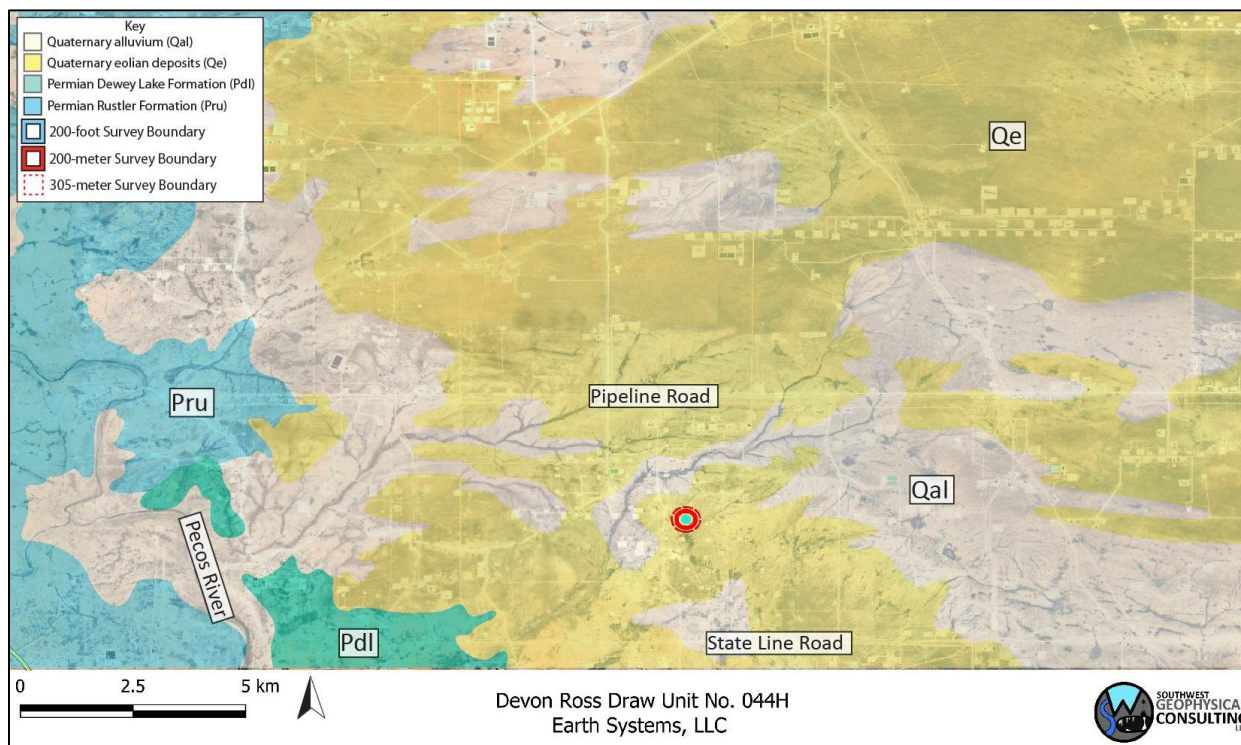


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

## 2.3 Description of Survey

### 2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance<sup>[1]</sup> (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated March 20, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated October 27, 2025<sup>[15]</sup>; the Ross Ranch, NM-TX, 1:24,000 quad, 1968, USGS topographic map; Phantom Banks, NM-TX, 1:24,000 quad, 1968, USGS; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no karst feature within the 305-meter survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary<sup>[4]</sup> (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report<sup>[16]</sup>.

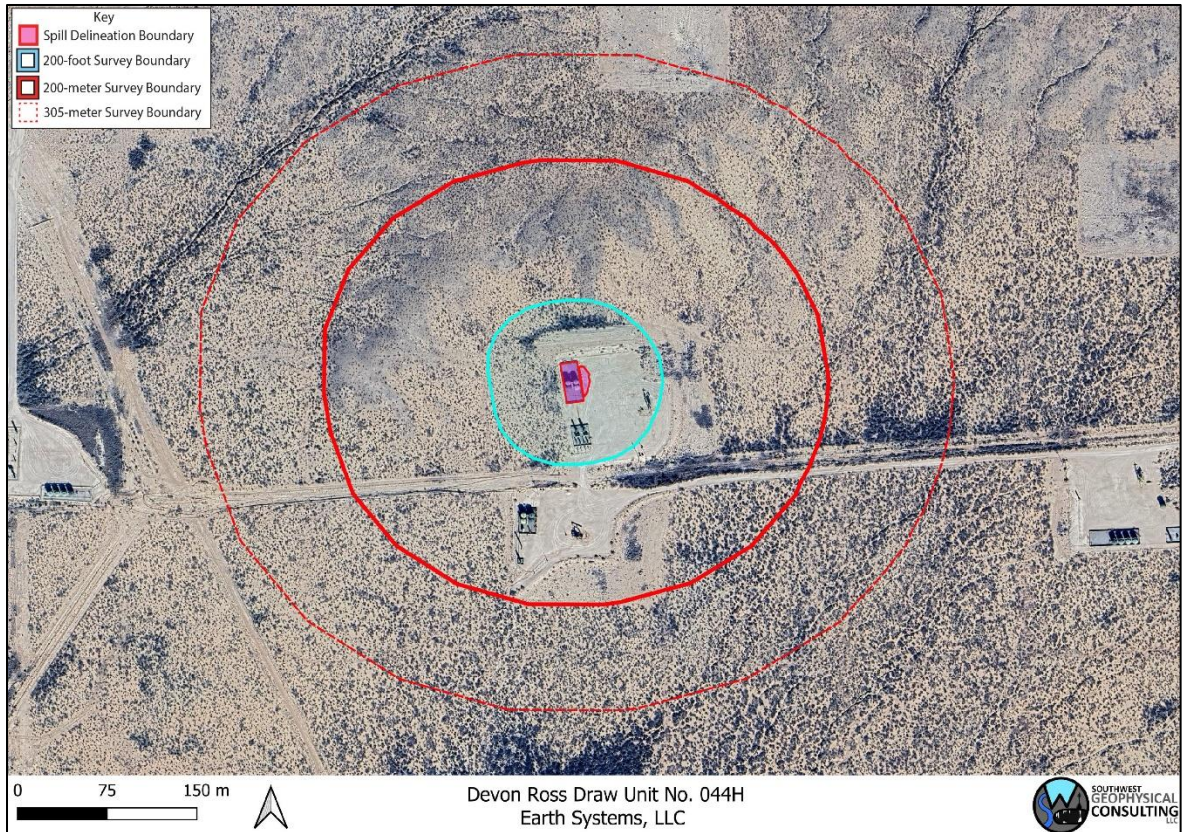


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: March 20, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on November 1, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on November 5, 2025.

### 2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with an 8-channel switchbox, a 42-electrode line of 40-centimeter-long (1.3 feet) stainless-steel electrodes, and a tablet controller were used to image the subsurface. The Spill Delineation Boundary provided by the client was used to plan the resistivity line and define the survey boundaries. The RD44 survey consisted of two resistivity lines in a dipole-dipole configuration laid out south to north (RD4401) and west to east (RD4402) at 4-meter electrode spacing, resulting in two 164-meter-long lines. (Figure 5, Table 1).

A preconfigured command file was used to run the data collection (DiDi42) which consisted of a dipole-dipole survey. This electrode configuration provided a depth of investigation of up to 38 meters (125 feet) in this location at a resolution of 2.0 to 2.5 meters (6.6 to 8.2 feet) near the surface. A Leica GS18 GPS was used to record electrode locations and elevations. On this survey, the estimated horizontal error mean was 7 cm (2.75 inches) and the estimated vertical error mean was 12 cm (4.7 inches).

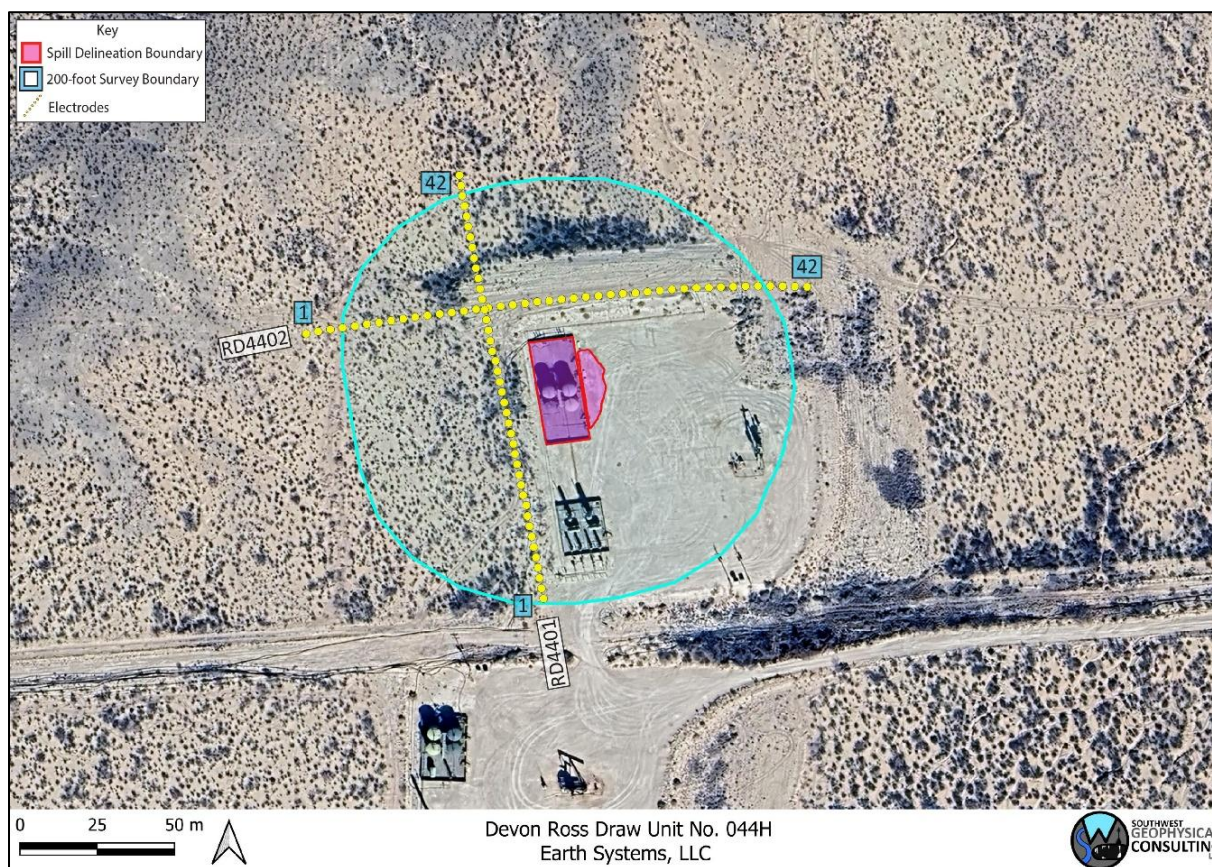


Figure 5: Geophysical survey overview. Both survey lines were conducted with 42 electrodes at 4-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

**Table 1** provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

**Table 1: Survey Line Data Table.** The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files RD44\_ERI\_Points.xlsx and ESYS-003-20251028\_RD44\_Data\_Files.kmz.

| File Name: | Completed By:  | Date:     |
|------------|--|-----------|
| RD4401.kmz | Steven Kesler – Field Geologist<br>Britt Bommer – Field Geologist<br>Aaron Beirl – Field Geologist | 11/4/2025 |
| RD4402.kmz |  | 11/4/2025 |

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

**Table 2: Software Information and Settings**

|  |   |
|--|---|
| Software Name:                         | EarthImager™ 2D   |
| Version:                               | 2.4.4.649   |
| Starting Model:                        | Average Apparent Resistivity  |
| Default Inversion Settings:            | Surface   |
| Changes to Default Inversion Settings: | Max Apparent Resistivity = 100 kΩ-m<br>Min Apparent Resistivity = 0.1 Ω-m |

**Note:** Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Steven Kesler, Britt Bommer, and Aaron Beirl on November 4, 2025.

### 3.0 RESULTS

#### 3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features located within the 200-meter (656-foot)<sup>[1]</sup> survey area surrounding the spill delineation boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)<sup>[1]</sup> survey boundary (Figure 6).

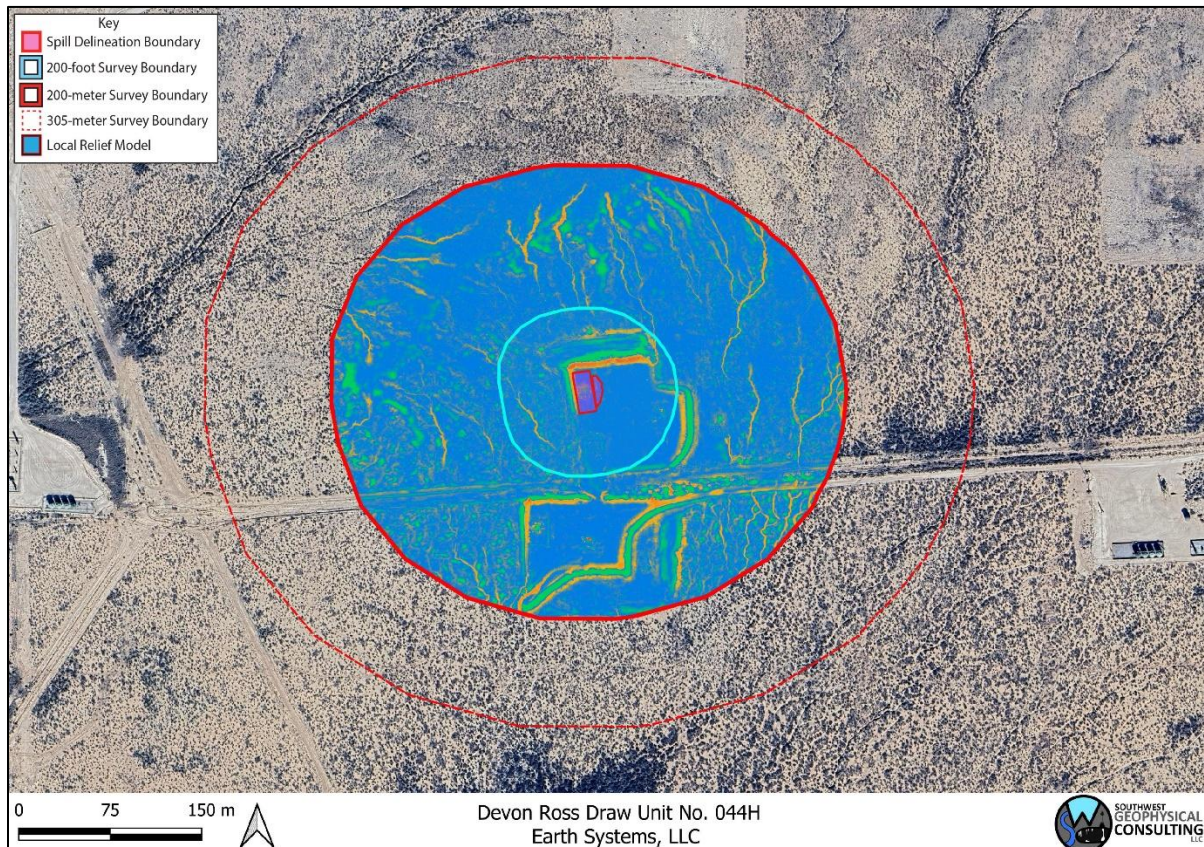


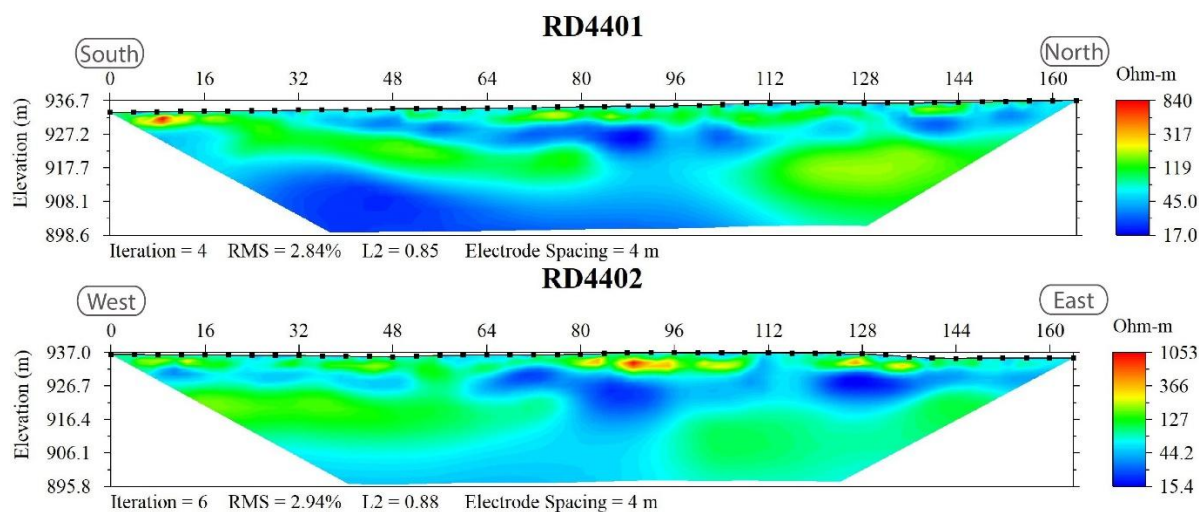
Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO-approved karst monitor on site during these activities should be considered.

### 3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with low resistivities between 15 and 1053 Ohm-m (**Figure 7**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.



**Figure 7: 2D inverted resistivity sections RD4401 and RD4402. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.**

#### 4.0 DISCUSSION

No surface karst features exist within 200 meters of the spill delineation boundary.

No anomalies consistent with air-filled subsurface voids are found within the RD44 survey area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.0 – 2.5 meters) may be present. Areas of high-resistivity (reds and oranges) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation<sup>[17]</sup> (**Figure 7** and **Figure 8**). Low-resistivity areas between 15 – 20 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO-approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth should be considered.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

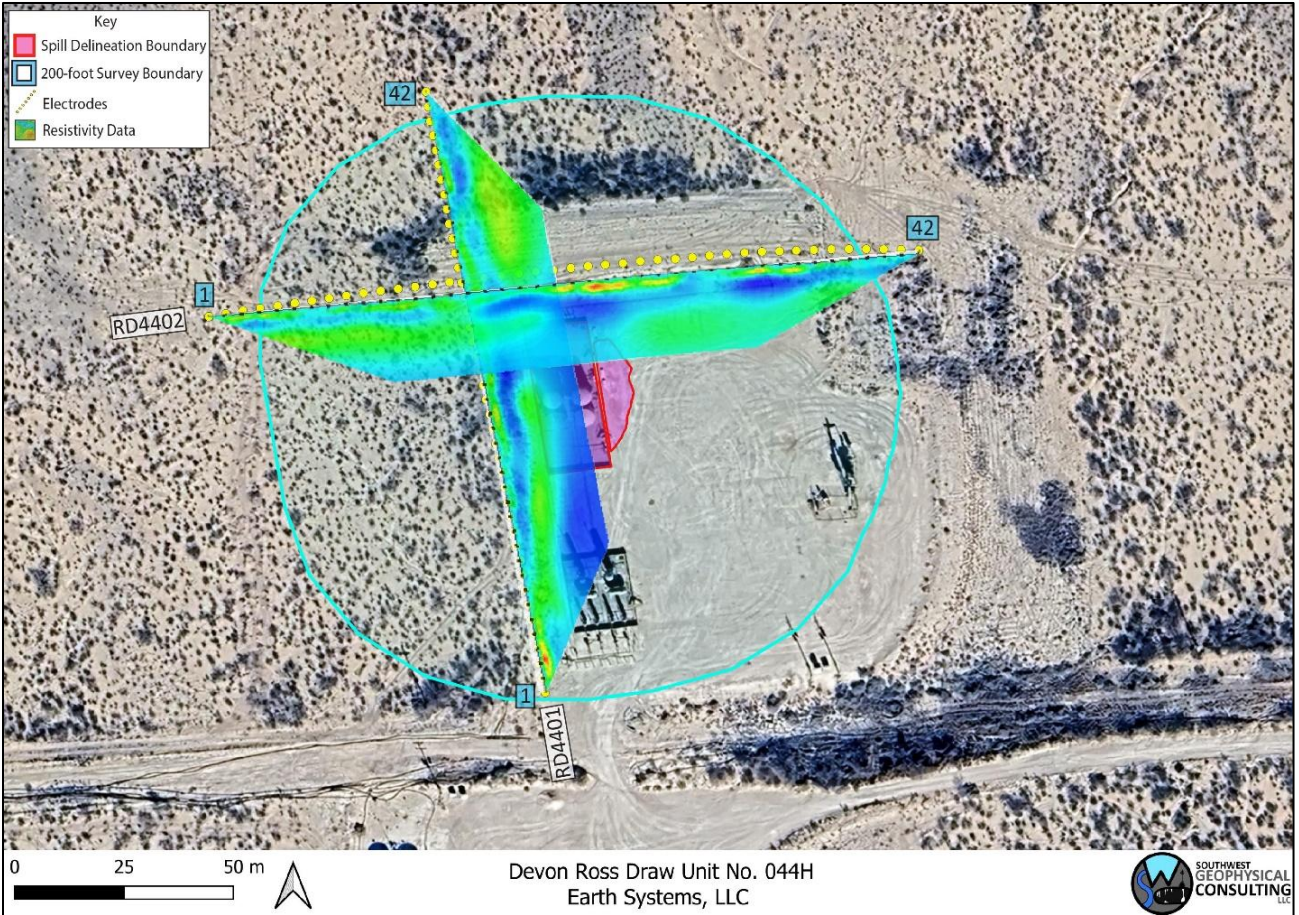


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: March 20, 2023.

## 5.0 SUMMARY

- **The RD44 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- No surface karst feature exists within the 200-meter survey boundary and no springs are noted within the 305-meter survey boundary.
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Moderately well-layered stratigraphy is interpreted to exist beneath the geophysical survey line, indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

## 6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at [blm\\_nm\\_karst@blm.gov](mailto:blm_nm_karst@blm.gov).

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

## 7.0 REFERENCES

- 1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
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- 3 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
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- 17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

**8.0 GLOSSARY OF TERMS**

|                           |  |
|---------------------------|--|
| AGI                       | Advanced Geosciences Inc.  |
| BLM-CFO                   | Bureau of Land Management - Carlsbad Field Office  |
| brecciated                | Fractured rock caused by faulting or collapse.   |
| caprock-collapse sinkhole | Collapse of roof-spanning rock into a cave or void.  |
| cave                      | Natural opening at the surface large enough for a person to enter.   |
| cover-collapse sinkhole   | Collapse of roof-spanning soil or clay ground cover into a subsurface void.  |
| ERI                       | Electrical Resistivity Imaging   |
| GPS                       | Global Positioning System  |
| grike                     | A solutionally enlarged, vertical, or sub-vertical joint or fracture.  |
| (H)                       | High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.   |
| HKOZ                      | High Karst Occurrence Zone   |
| karst                     | A landscape containing solutional features such as caves, sinkholes, swallets, and springs.  |
| (L)                       | Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.            |
| (M)                       | Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst). |
| MKOZ                      | Medium Karst Occurrence Zone   |
| NCRC                      | National Cave Rescue Commission  |
| NKF                       | Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.           |
| NMSLO                     | New Mexico State Land Office   |
| Ohm-m                     | Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated $\Omega$ -m.   |
| paleokarst                | Previously formed karst features that have been filled in by erosion and/or deposition of minerals.  |
| Pat                       | Permian Artesia Group  |
| Pc                        | Permian Capitan Formation  |
| Pcs                       | Permian Castile Formation  |
| Pdl                       | Permian Dewey Lake Formation   |
| PKF                       | Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the   |

field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.

|                    |   |
|--------------------|---|
| PLSS               | Public Land Survey System   |
| Pqg                | Permian Queen/Greyburg Formation  |
| Pru                | Permian Rustler Formation   |
| pseudokarst        | Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes. |
| Psl                | Permian Salado Formation  |
| Psr                | Permian Seven Rivers Formation  |
| Pt                 | Permian Tansill Formation   |
| Py                 | Permian Yates Formation   |
| Qal                | Quaternary alluvium   |
| Qe                 | Quaternary eolian deposits  |
| Qp                 | Quaternary piedmont deposits  |
| Qpl                | Quaternary playa lake deposits  |
| RKF                | Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.   |
| SPAR               | Small Party Assisted Rescue   |
| sUAS               | Small, uncrewed aerial system   |
| suffosion sinkhole | Raveling of soil into a pre-existing void or fracture.  |
| swallet            | A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment. |
| SWG                | Southwest Geophysical Consulting, LLC   |
| UTM                | Universal Transverse Mercator (projected coordinates)   |
| (V)                | Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified   |
| WGS                | World Geodetic System (geographic coordinates)  |

## 9.0 ATTESTATION

### David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

[dave@swgeophys.com](mailto:dave@swgeophys.com)

(505) 585-2550

## CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ESYS-003-20251028 entitled, “Environmental Karst Study Report, Devon Ross Draw Unit No. 044H, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.


- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, November 12, 2025.



David D. Decker  
PhD, CPG-12123



|  |               |            |          |            |          |            | BORING LOG/MONITORING WELL COMPLETION DIAGRAM |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
|---|---------------|------------|----------|------------|----------|------------|---|-----------------|---|----------------|--------|-------------------------------|--------------------|------------|-----|-----------------------------|-------------|----------------------|-----|-------------|-------------|----------------------------|-----------|-------|-----------|-----------|--|------------|--|
| Boring/Well Number:   |               |            |          |            |          |            | MW-1  |                 |   | Location:      |        |                               | Ross Draw Unit #38 |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| Date:   |               |            |          |            |          |            | 12/8/2020                                     |                 |   | Client:        |        |                               | WPX Energy         |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| Drilling Method:  |               |            |          | Air Rotary |          |            | Sampling Method:                              |                 |   |                | None   |                               |                    | Logged By: |     |                             | J. Linn, PG |                      |     | Drilled By: |             |                            | Talon LPE |       |           |           |  |            |  |
| Gravel Pack Type:   |               |            |          | 10/20 Sand |          |            | Gravel Pack Depth Interval:                   |                 |   |                | 3 Bags |                               |                    | Seal Type: |     | None                        |             | Seal Depth Interval: |     | None        |             | Latitude:                  |           |       | 32.030300 |           |  |            |  |
| Casing Type:  |               | PVC        |          | Diameter:  |          | 2-inch     |   | Depth Interval: |   | 0-100 feet bgs |        | Boring Total Depth (ft. BGS): |                    |            | 105 |                             |             | Longitude:           |     |             | -103.871338 |                            |           |       |           |           |  |            |  |
| Screen Type:  |               | PVC        |          | Slot:      |          | 0.010-inch |   | Diameter:       |   | 2-inch         |        | Depth Interval:               |                    | 100-105 ft |     | Well Total Depth (ft. BGS): |             |                      | 105 |             |             | Depth to Water (ft. BTOC): |           | > 105 |           | DTW Date: |  | 12/16/2020 |  |
| Depth Interval (ft)   | Recovery (ft) | Plasticity | Moisture | Odor       | Staining | PID (ppm)  | USCS  | Sample ID       | Lithology/Remarks   |                |        |                               |                    |            |     | Well Completion             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 0   | NM            | L          | D        | N          | N        | NM         | SW  | NS              | Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 5   |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 10  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 15  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 20  | NM            | L          | D        | N          | N        | NM         | SP  | NS              | Pale orange/pale pink poorly graded fine sand                                     |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 25  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 30  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 35  | NM            | L          | D        | N          | N        | NM         | SP  | NS              | Tan/pale brown/pale orange poorly graded fine sand                                |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 40  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 45  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 50  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 55  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 60  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 65  | NM            | L          | D        | N          | N        | NM         | SP  | NS              | Brick red brown poorly graded fine sand   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 70  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 75  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 80  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 85  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 90  | NM            | L          | D        | N          | N        | NM         | SP  | NS              | Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS                  |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 95  |               |            |          |            |          |            |   |                 |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |
| 100   | NM            | L          | D        | N          | N        | NM         | SP  | NS              |   |                |        |                               |                    |            |     |                             |             |                      |     |             |             |                            |           |       |           |           |  |            |  |

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 452319

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>452319   |
|  | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2508325453                                     |
| Incident Name        | NAPP2508325453 ROSS DRAW UNIT #044H @ 30-015-41580 |
| Incident Type        | Oil Release  |
| Incident Status      | Initial C-141 Approved                             |
| Incident Well        | [30-015-41580] ROSS DRAW UNIT #044H                |

|                                   |                      |
|-----------------------------------|----------------------|
| <b>Location of Release Source</b> |                      |
| Site Name                         | ROSS DRAW UNIT #044H |
| Date Release Discovered           | 03/20/2025           |
| Surface Owner                     | Federal              |

|   |                               |
|---|-------------------------------|
| <b>Liner Inspection Event Information</b>   |                               |
| <i>Please answer all the questions in this group.</i>   |                               |
| What is the liner inspection surface area in square feet  | 6,068                         |
| Have all the impacted materials been removed from the liner   | Yes                           |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC | 04/18/2025                    |
| Time liner inspection will commence   | 08:00 AM                      |
| Please provide any information necessary for observers to liner inspection                              | Gilbert Moreno (832) 541-7719 |
| Please provide any information necessary for navigation to liner inspection site                        | 32.034744, -103.875862        |

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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 452319

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>452319   |
|  | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| jraley     | Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted. | 4/15/2025      |

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 475600

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>475600                                   |
|  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2508325453                                     |
| Incident Name        | NAPP2508325453 ROSS DRAW UNIT #044H @ 30-015-41580 |
| Incident Type        | Oil Release  |
| Incident Status      | Initial C-141 Approved                             |
| Incident Well        | [30-015-41580] ROSS DRAW UNIT #044H                |

|                                   |                      |
|-----------------------------------|----------------------|
| <b>Location of Release Source</b> |                      |
| Site Name                         | ROSS DRAW UNIT #044H |
| Date Release Discovered           | 03/20/2025           |
| Surface Owner                     | Federal              |

|   |                               |
|---|-------------------------------|
| <b>Sampling Event General Information</b>   |                               |
| <i>Please answer all the questions in this group.</i>   |                               |
| What is the sampling surface area in square feet  | 6,068                         |
| What is the estimated number of samples that will be gathered                                   | 30                            |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/19/2025                    |
| Time sampling will commence   | 08:00 AM                      |
| Please provide any information necessary for observers to contact samplers                      | Gilbert Moreno (832) 541-7719 |
| Please provide any information necessary for navigation to sampling site                        | 32.034744,-103.875862         |

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

General Information  
 Phone: (505) 629-6116

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

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

CONDITIONS

Action 475600

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>475600                                   |
|  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| jraley     | 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.          | 6/16/2025      |
| jraley     | If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application. | 6/16/2025      |

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

QUESTIONS

Action 475602

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>475602                                   |
|  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2508325453                                     |
| Incident Name        | NAPP2508325453 ROSS DRAW UNIT #044H @ 30-015-41580 |
| Incident Type        | Oil Release  |
| Incident Status      | Initial C-141 Approved                             |
| Incident Well        | [30-015-41580] ROSS DRAW UNIT #044H                |

|                                   |                      |
|-----------------------------------|----------------------|
| <b>Location of Release Source</b> |                      |
| Site Name                         | ROSS DRAW UNIT #044H |
| Date Release Discovered           | 03/20/2025           |
| Surface Owner                     | Federal              |

|   |                               |
|---|-------------------------------|
| <b>Sampling Event General Information</b>   |                               |
| <i>Please answer all the questions in this group.</i>   |                               |
| What is the sampling surface area in square feet  | 6,068                         |
| What is the estimated number of samples that will be gathered                                   | 30                            |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/20/2025                    |
| Time sampling will commence   | 08:00 AM                      |
| Please provide any information necessary for observers to contact samplers                      | Gilbert Moreno (832) 541-7719 |
| Please provide any information necessary for navigation to sampling site                        | 32.034744,-103.875862         |

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 475602

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>475602                                   |
|  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| jraley     | 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.          | 6/16/2025      |
| jraley     | If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application. | 6/16/2025      |



Soil Sampling Activities - ROSS DRAW UNIT #044H - Incident Number nAPP2508325453

From Gilbert Moreno <gmoreno@earthsys.net>

Date Fri 9/26/2025 8:49 AM

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

Cc Raley, Jim <jim.ralej@dmn.com>; CFO\_Spill, BLM\_NM <blm\_nm\_cfo\_spill@blm.gov>

Hello,

Earth Systems R & R anticipates conducting soil sampling activities at the ROSS DRAW UNIT #044H, October 1st, 2025. This email will be followed up with a Notification of Sampling (C-141N) for the proposed date(s).

|  |                                      |
|--|--------------------------------------|
| • <b>What is the sampling surface area in square feet</b>  | <u>2,000 sqft.</u>                   |
| • <b>What is the estimated number of samples that will be gathered</b>                                   | <u>20</u>                            |
| • <b>Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC</b> | <u>10/1/2025</u>                     |
| • <b>Time sampling will commence</b>   | <u>08:00 MST</u>                     |
| • <b>Please provide any information necessary for observers to contact samplers</b>                      | <u>Gilbert Moreno (832) 541-7719</u> |
| • <b>Please provide any information necessary for navigation to sampling site</b>                        | <u>32.034744, -103.875862</u>        |

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





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 8/11/2025 6:05:22 PM Revision 1

## JOB DESCRIPTION

Ross Draw Unit #044H  
 Eddy County, NM

## JOB NUMBER

890-8318-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



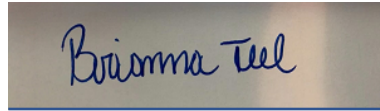
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
8/11/2025 6:05:22 PM  
Revision 1

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

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Laboratory Job ID: 890-8318-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8318-1

**Job ID: 890-8318-1**

**Eurofins Carlsbad**

### Job Narrative 890-8318-1

#### REVISION

The report being provided is a revision of the original report sent on 6/25/2025. The report (revision 1) is being revised due to Revised to correct sample 006 depth to 0.5'.

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### **Receipt**

The samples were received on 6/20/2025 3:22 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 0.2°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (890-8318-1), HA-1 (890-8318-2), HA-1 (890-8318-3), HA-1 (890-8318-4), HA-1 (890-8318-5), HA-2 (890-8318-6), HA-2 (890-8318-7), HA-2 (890-8318-8), HA-2 (890-8318-9) and HA-2 (890-8318-10).

#### **GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-112742 and analytical batch 880-112766 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### **Diesel Range Organics**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-112767 and analytical batch 880-112828 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-112767 and analytical batch 880-112828 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-112767/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### **HPLC/IC**

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

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-1**

Date Collected: 06/19/25 13:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U F1      | 0.00401 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:01 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 14:01 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/23/25 18:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1  | U *1      | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:32 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 119       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 18:32 | 1       |
| o-Terphenyl    | 122       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 18:32 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 100    |           | 9.98 |     | mg/Kg |   |          | 06/24/25 14:34 | 1       |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-2**

Date Collected: 06/19/25 13:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:21 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:21 | 1       |

Eurofins Carlsbad

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-2**

Date Collected: 06/19/25 13:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 71        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:21 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 14:21 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 18:47 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:47 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U *1      | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 18:47 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 118       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 18:47 | 1       |
| o-Terphenyl    | 121       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 18:47 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 86.4   |           | 9.96 |     | mg/Kg |   |          | 06/24/25 14:41 | 1       |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-3**

Date Collected: 06/19/25 13:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 14:42 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:42 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 14:42 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 14:42 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 19:02 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-3**

Date Collected: 06/19/25 13:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6            | U                | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:02  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.6            | U *1             | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:02  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.6            | U                | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:02  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 119              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 19:02  | 1              |
| o-Terphenyl                          | 123              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 19:02  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 136    |           | 9.92 |     | mg/Kg |   |          | 06/24/25 14:48 | 1       |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-4**

Date Collected: 06/19/25 13:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| Toluene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| Ethylbenzene                | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| m-Xylene & p-Xylene         | <0.00397         | U                | 0.00397       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| o-Xylene                    | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| Xylenes, Total              | <0.00397         | U                | 0.00397       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 86               |                  | 70 - 130      |     |       |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |
| 1,4-Difluorobenzene (Surr)  | 91               |                  | 70 - 130      |     |       |   | 06/23/25 09:42  | 06/23/25 15:02  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 06/23/25 15:02 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 19:17 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:17  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U *1             | 50.0          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:17  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 19:17  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 118              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 19:17  | 1              |
| o-Terphenyl                          | 121              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 19:17  | 1              |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-4**

Date Collected: 06/19/25 13:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 114    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 14:55 | 1       |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-5**

Date Collected: 06/19/25 13:20

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 15:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 15:23 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 15:23 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 19:31 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U *1      | 49.6 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 122       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 19:31 | 1       |
| o-Terphenyl    | 125       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 19:31 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 131    |           | 9.90 |     | mg/Kg |   |          | 06/24/25 15:17 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-6**

Date Collected: 06/19/25 13:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5'

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 15:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 15:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 15:44 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 15:44 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 19:46 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *1      | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 19:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 119       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 19:46 | 1       |
| o-Terphenyl    | 123       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 19:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 79.0   |           | 9.90 |     | mg/Kg |   |          | 06/24/25 15:24 | 1       |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-7**

Date Collected: 06/19/25 13:30

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:04 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 16:04 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-7**

Date Collected: 06/19/25 13:30

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 90        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 16:04 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 06/23/25 16:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/23/25 20:00 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 20:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1  | U *1      | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 20:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 20:00 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 20:00 | 1       |
| o-Terphenyl    | 121       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 20:00 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 72.3   |           | 10.1 |     | mg/Kg |   |          | 06/24/25 15:46 | 1       |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-8**

Date Collected: 06/19/25 13:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 16:25 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 16:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 16:25 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 16:25 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.3  | U         | 50.3 |     | mg/Kg |   |          | 06/23/25 20:15 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-8**

Date Collected: 06/19/25 13:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3            | U                | 50.3          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:15  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.3            | U *1             | 50.3          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:15  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.3            | U                | 50.3          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:15  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 120              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 20:15  | 1              |
| o-Terphenyl                          | 124              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 20:15  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 105    |           | 10.1 |     | mg/Kg |   |          | 06/24/25 15:53 | 1       |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-9**

Date Collected: 06/19/25 13:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| Toluene                     | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| Ethylbenzene                | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| m-Xylene & p-Xylene         | <0.00401         | U                | 0.00401       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| o-Xylene                    | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| Xylenes, Total              | <0.00401         | U                | 0.00401       |     | mg/Kg |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 87               |                  | 70 - 130      |     |       |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |
| 1,4-Difluorobenzene (Surr)  | 91               |                  | 70 - 130      |     |       |   | 06/23/25 09:42  | 06/23/25 16:45  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 16:45 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 06/23/25 20:30 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:30  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.9            | U *1             | 49.9          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:30  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 20:30  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 120              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 20:30  | 1              |
| o-Terphenyl                          | 124              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 20:30  | 1              |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-9**

Date Collected: 06/19/25 13:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 94.2   |           | 9.96 |     | mg/Kg |   |          | 06/24/25 16:00 | 1       |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-10**

Date Collected: 06/19/25 13:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 17:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 17:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 17:06 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 17:06 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 21:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U *1      | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:01 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:01 | 1       |
| o-Terphenyl    | 125       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:01 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 174    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 16:07 | 1       |

## Surrogate Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8318-1          | HA-1                   | 87   | 84                |
| 890-8318-1 MS       | HA-1                   | 91   | 91                |
| 890-8318-1 MSD      | HA-1                   | 90   | 97                |
| 890-8318-2          | HA-1                   | 89   | 71                |
| 890-8318-3          | HA-1                   | 89   | 95                |
| 890-8318-4          | HA-1                   | 86   | 91                |
| 890-8318-5          | HA-1                   | 97   | 91                |
| 890-8318-6          | HA-2                   | 92   | 97                |
| 890-8318-7          | HA-2                   | 91   | 90                |
| 890-8318-8          | HA-2                   | 93   | 96                |
| 890-8318-9          | HA-2                   | 87   | 91                |
| 890-8318-10         | HA-2                   | 100  | 83                |
| LCS 880-112742/1-A  | Lab Control Sample     | 91   | 96                |
| LCSD 880-112742/2-A | Lab Control Sample Dup | 102  | 96                |
| MB 880-112742/5-A   | Method Blank           | 86   | 92                |

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8318-1          | HA-1                   | 119  | 122               |
| 890-8318-2          | HA-1                   | 118  | 121               |
| 890-8318-3          | HA-1                   | 119  | 123               |
| 890-8318-4          | HA-1                   | 118  | 121               |
| 890-8318-5          | HA-1                   | 122  | 125               |
| 890-8318-6          | HA-2                   | 119  | 123               |
| 890-8318-7          | HA-2                   | 117  | 121               |
| 890-8318-8          | HA-2                   | 120  | 124               |
| 890-8318-9          | HA-2                   | 120  | 124               |
| 890-8318-10         | HA-2                   | 121  | 125               |
| LCS 880-112767/2-A  | Lab Control Sample     | 138 S1+  | 133 S1+           |
| LCSD 880-112767/3-A | Lab Control Sample Dup | 82   | 77                |
| MB 880-112767/1-A   | Method Blank           | 130  | 131 S1+           |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112742/5-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86           |              | 70 - 130 | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 | 06/23/25 09:42 | 06/23/25 13:39 | 1       |

Lab Sample ID: LCS 880-112742/1-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09095    |               | mg/Kg |   | 91   | 70 - 130    |
| Toluene             | 0.100       | 0.09077    |               | mg/Kg |   | 91   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09204    |               | mg/Kg |   | 92   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1644     |               | mg/Kg |   | 82   | 70 - 130    |
| o-Xylene            | 0.100       | 0.08370    |               | mg/Kg |   | 84   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

Lab Sample ID: LCSD 880-112742/2-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.09500     |                | mg/Kg |   | 95   | 70 - 130    | 4   | 35    |
| Toluene             | 0.100       | 0.09604     |                | mg/Kg |   | 96   | 70 - 130    | 6   | 35    |
| Ethylbenzene        | 0.100       | 0.1000      |                | mg/Kg |   | 100  | 70 - 130    | 8   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2003      |                | mg/Kg |   | 100  | 70 - 130    | 20  | 35    |
| o-Xylene            | 0.100       | 0.1011      |                | mg/Kg |   | 101  | 70 - 130    | 19  | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96             |                | 70 - 130 |

Lab Sample ID: 890-8318-1 MS  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: HA-1  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200      | U                | 0.100       | 0.07360   |              | mg/Kg |   | 74   | 70 - 130    |
| Toluene | <0.00200      | U                | 0.100       | 0.07805   |              | mg/Kg |   | 78   | 70 - 130    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8318-1 MS  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: HA-1  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00200      | U                | 0.100       | 0.07949   |              | mg/Kg |   | 79   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00401      | U F1             | 0.200       | 0.1381    | F1           | mg/Kg |   | 69   | 70 - 130    |
| o-Xylene            | <0.00200      | U                | 0.100       | 0.07065   |              | mg/Kg |   | 71   | 70 - 130    |

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

Lab Sample ID: 890-8318-1 MSD  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: HA-1  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
| Benzene             | <0.00200      | U                | 0.100       | 0.09712    |               | mg/Kg |   | 97   | 70 - 130    | 28  | 35    |
| Toluene             | <0.00200      | U                | 0.100       | 0.09809    |               | mg/Kg |   | 98   | 70 - 130    | 23  | 35    |
| Ethylbenzene        | <0.00200      | U                | 0.100       | 0.09847    |               | mg/Kg |   | 98   | 70 - 130    | 21  | 35    |
| m-Xylene & p-Xylene | <0.00401      | U F1             | 0.200       | 0.1737     |               | mg/Kg |   | 87   | 70 - 130    | 23  | 35    |
| o-Xylene            | <0.00200      | U                | 0.100       | 0.08625    |               | mg/Kg |   | 86   | 70 - 130    | 20  | 35    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 90            |               | 70 - 130   |
| 1,4-Difluorobenzene (Surr)  | 97            |               | 70 - 130   |

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

Lab Sample ID: MB 880-112767/1-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 06/23/25 10:10 | 06/23/25 09:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 06/23/25 10:10 | 06/23/25 09:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 06/23/25 10:10 | 06/23/25 09:14 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | MB Limits | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|-----------|----------------|----------------|---------|
| 1-Chlorooctane | 130          |              | 70 - 130  | 06/23/25 10:10 | 06/23/25 09:14 | 1       |
| o-Terphenyl    | 131          | S1+          | 70 - 130  | 06/23/25 10:10 | 06/23/25 09:14 | 1       |

Lab Sample ID: LCS 880-112767/2-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1247       |               | mg/Kg |   | 125  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1212       |               | mg/Kg |   | 121  | 70 - 130    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-112767/2-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 138           | S1+           | 70 - 130 |
| o-Terphenyl    | 133           | S1+           | 70 - 130 |

Lab Sample ID: LCSD 880-112767/3-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1069        |                | mg/Kg |   | 107  | 70 - 130    | 15  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 869.3       | *1             | mg/Kg |   | 87   | 70 - 130    | 33  | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 82             |                | 70 - 130 |
| o-Terphenyl    | 77             |                | 70 - 130 |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112810/1-A  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0     | U            | 10.0 |     | mg/Kg |   |          | 06/24/25 12:53 | 1       |

Lab Sample ID: LCS 880-112810/2-A  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 254.5      |               | mg/Kg |   | 102  | 90 - 110    |

Lab Sample ID: LCSD 880-112810/3-A  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 252.8       |                | mg/Kg |   | 101  | 90 - 110    | 1   | 20        |

Lab Sample ID: 890-8318-4 MS  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: HA-1  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 114           |                  | 251         | 377.0     |              | mg/Kg |   | 105  | 90 - 110    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy County, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8318-4 MSD  
Matrix: Solid  
Analysis Batch: 112850

Client Sample ID: HA-1  
Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 114           |                  | 251         | 383.8      |               | mg/Kg |   | 108  | 90 - 110    | 2   | 20        |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044HJob ID: 890-8318-1  
SDG: Eddy County, NM

## GC VOA

## Prep Batch: 112742

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8318-1          | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-2          | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-3          | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-4          | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-5          | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-6          | HA-2                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-7          | HA-2                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-8          | HA-2                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-9          | HA-2                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-10         | HA-2                   | Total/NA  | Solid  | 5035   |            |
| MB 880-112742/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112742/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-112742/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-8318-1 MS       | HA-1                   | Total/NA  | Solid  | 5035   |            |
| 890-8318-1 MSD      | HA-1                   | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 112766

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8318-1          | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-2          | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-3          | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-4          | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-5          | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-6          | HA-2                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-7          | HA-2                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-8          | HA-2                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-9          | HA-2                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-10         | HA-2                   | Total/NA  | Solid  | 8021B  | 112742     |
| MB 880-112742/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112742     |
| LCS 880-112742/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112742     |
| LCSD 880-112742/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-1 MS       | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8318-1 MSD      | HA-1                   | Total/NA  | Solid  | 8021B  | 112742     |

## Analysis Batch: 112958

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8318-1    | HA-1             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-2    | HA-1             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-3    | HA-1             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-4    | HA-1             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-5    | HA-1             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-6    | HA-2             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-7    | HA-2             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-8    | HA-2             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-9    | HA-2             | Total/NA  | Solid  | Total BTEX |            |
| 890-8318-10   | HA-2             | Total/NA  | Solid  | Total BTEX |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044HJob ID: 890-8318-1  
SDG: Eddy County, NM

## GC Semi VOA

## Prep Batch: 112767

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8318-1          | HA-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-2          | HA-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-3          | HA-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-4          | HA-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-5          | HA-1                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-6          | HA-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-7          | HA-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-8          | HA-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-9          | HA-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8318-10         | HA-2                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112767/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112767/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112767/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 112828

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8318-1          | HA-1                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-2          | HA-1                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-3          | HA-1                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-4          | HA-1                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-5          | HA-1                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-6          | HA-2                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-7          | HA-2                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-8          | HA-2                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-9          | HA-2                   | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8318-10         | HA-2                   | Total/NA  | Solid  | 8015B NM | 112767     |
| MB 880-112767/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 112767     |
| LCS 880-112767/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112767     |
| LCSD 880-112767/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112767     |

## Analysis Batch: 112906

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8318-1    | HA-1             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-2    | HA-1             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-3    | HA-1             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-4    | HA-1             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-5    | HA-1             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-6    | HA-2             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-7    | HA-2             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-8    | HA-2             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-9    | HA-2             | Total/NA  | Solid  | 8015 NM |            |
| 890-8318-10   | HA-2             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 112810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-8318-1    | HA-1             | Soluble   | Solid  | DI Leach |            |
| 890-8318-2    | HA-1             | Soluble   | Solid  | DI Leach |            |
| 890-8318-3    | HA-1             | Soluble   | Solid  | DI Leach |            |
| 890-8318-4    | HA-1             | Soluble   | Solid  | DI Leach |            |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

#### HPLC/IC (Continued)

##### Leach Batch: 112810 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8318-5          | HA-1                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-6          | HA-2                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-7          | HA-2                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-8          | HA-2                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-9          | HA-2                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-10         | HA-2                   | Soluble   | Solid  | DI Leach |            |
| MB 880-112810/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112810/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-112810/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-8318-4 MS       | HA-1                   | Soluble   | Solid  | DI Leach |            |
| 890-8318-4 MSD      | HA-1                   | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 112850

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8318-1          | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-2          | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-3          | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-4          | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-5          | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-6          | HA-2                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-7          | HA-2                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-8          | HA-2                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-9          | HA-2                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-10         | HA-2                   | Soluble   | Solid  | 300.0  | 112810     |
| MB 880-112810/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112810     |
| LCS 880-112810/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112810     |
| LCSD 880-112810/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-4 MS       | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |
| 890-8318-4 MSD      | HA-1                   | Soluble   | Solid  | 300.0  | 112810     |

### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-1**

**Date Collected: 06/19/25 13:00**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 14:01       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 14:01       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 18:32       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.99 g         | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 18:32       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 14:34       | CS      | EET MID |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-2**

**Date Collected: 06/19/25 13:05**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 14:21       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 14:21       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 18:47       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 18:47       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 14:41       | CS      | EET MID |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-3**

**Date Collected: 06/19/25 13:10**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 14:42       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 14:42       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 19:02       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 19:02       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 14:48       | CS      | EET MID |

**Client Sample ID: HA-1**

**Lab Sample ID: 890-8318-4**

**Date Collected: 06/19/25 13:15**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 15:02       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 15:02       | SA      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-1**

Date Collected: 06/19/25 13:15

Date Received: 06/20/25 15:22

**Lab Sample ID: 890-8318-4**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 19:17       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 19:17       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 14:55       | CS      | EET MID |

**Client Sample ID: HA-1**

Date Collected: 06/19/25 13:20

Date Received: 06/20/25 15:22

**Lab Sample ID: 890-8318-5**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 15:23       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 15:23       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 19:31       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 19:31       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 15:17       | CS      | EET MID |

**Client Sample ID: HA-2**

Date Collected: 06/19/25 13:25

Date Received: 06/20/25 15:22

**Lab Sample ID: 890-8318-6**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 15:44       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 15:44       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 19:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 19:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 15:24       | CS      | EET MID |

**Client Sample ID: HA-2**

Date Collected: 06/19/25 13:30

Date Received: 06/20/25 15:22

**Lab Sample ID: 890-8318-7**

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 16:04       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 16:04       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 20:00       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 20:00       | TKC     | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-7**

Date Collected: 06/19/25 13:30

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 15:46       | CS      | EET MID |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-8**

Date Collected: 06/19/25 13:35

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 16:25       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 16:25       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 20:15       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.95 g         | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 20:15       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 15:53       | CS      | EET MID |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-9**

Date Collected: 06/19/25 13:40

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 16:45       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 16:45       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 20:30       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 20:30       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 16:00       | CS      | EET MID |

**Client Sample ID: HA-2**

**Lab Sample ID: 890-8318-10**

Date Collected: 06/19/25 13:45

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 17:06       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112958       | 06/23/25 17:06       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112906       | 06/23/25 21:01       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 21:01       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 16:07       | CS      | EET MID |

Eurofins Carlsbad

# Lab Chronicle

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy County, NM

**Laboratory References:**

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

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### Accreditation/Certification Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-25        |

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

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

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# Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy 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: Ross Draw Unit #044H

Job ID: 890-8318-1  
SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8318-1    | HA-1             | Solid  | 06/19/25 13:00 | 06/20/25 15:22 | 0.5'  |
| 890-8318-2    | HA-1             | Solid  | 06/19/25 13:05 | 06/20/25 15:22 | 1     |
| 890-8318-3    | HA-1             | Solid  | 06/19/25 13:10 | 06/20/25 15:22 | 2     |
| 890-8318-4    | HA-1             | Solid  | 06/19/25 13:15 | 06/20/25 15:22 | 3     |
| 890-8318-5    | HA-1             | Solid  | 06/19/25 13:20 | 06/20/25 15:22 | 4     |
| 890-8318-6    | HA-2             | Solid  | 06/19/25 13:25 | 06/20/25 15:22 | 0.5'  |
| 890-8318-7    | HA-2             | Solid  | 06/19/25 13:30 | 06/20/25 15:22 | 1     |
| 890-8318-8    | HA-2             | Solid  | 06/19/25 13:35 | 06/20/25 15:22 | 2     |
| 890-8318-9    | HA-2             | Solid  | 06/19/25 13:40 | 06/20/25 15:22 | 3     |
| 890-8318-10   | HA-2             | Solid  | 06/19/25 13:45 | 06/20/25 15:22 | 4     |

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Environment Testing Xenco

Chain of Custody

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



890-9318 Chain of Custody

www.xenco.com Page 1 of 2

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

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

Project Name: ROSS DRAW UNIT #044H
Project Number: 155
Project Location: Eddy County, NM
Sampler's Name: Santiago Giron
CCWVO #: 21547716
SAMPLE RECEIPT
Temp Blank: Yes No
Thermometer ID: Tuncel
Cooler Custody Seals: Yes No N/A
Sample Custody Seals: Yes No N/A
Total Containers: Corrected Temperature: 0.2

Table with columns: Sample Identification, Matrix, Date Sampled, Time Sampled, Depth (feet), Grab/Comp # of Cont, Parameters (TPH-NM, Chloride-NM, BTEX-NM, Hold, 24 Hr Rush), Preservative Codes, Incident Number.

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

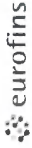
Circle Method(s) and Metal(s) to be analyzed
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco...

Relinquished by: (Signature) Received by: (Signature) Date/Time
0 Received by: (Signature) Date/Time
3 Received by: (Signature) Date/Time
5 Received by: (Signature) Date/Time



**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

# Chain of Custody Record



Environment Testing

**Client Information (Sub Contract Lab)**

Client Contact: N/A  
 Shipping/Receiving: Brianna Teel  
 Company: Eurofins Environment Testing South Centrl  
 Address: 1211 W. Florida Ave., Midland, TX, 79701  
 Phone: 432-704-5440(Tel)  
 Email: N/A  
 Project Name: ROSS DRAW UNIT #044H  
 Site: N/A

Lab PM: Teel, Brianna  
 E-Mail: Brianna.Teel@et.eurofins.com  
 Accreditations Required (See note): NELAP - Texas

Carrier Tracking No(s): N/A  
 State of Origin: New Mexico  
 Page: Page 1 of 2  
 Job #: 890-8318-1  
 Preservation Codes:

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time    | Sample Type (C=Comp, G=grab) | Matrix (W=Water, S=Solid, O=Other, A=Air) | Preservation Code | Field Filtered Sample (Yes or No) |                            | Perform MS/MSD (Yes or No) |   | Total BTEX_GCV | 9021B/5035FP_CalcBTEX | 300_ORGM_28/DI_LEACHChloride | 8015MOD_Calc | 8015MOD_NM/8015NM_S_Prep015 NM | Total Number of Containers | Special Instructions/Note: |
|--|-------------|----------------|------------------------------|---|-------------------|-----------------------------------|----------------------------|----------------------------|---|----------------|-----------------------|------------------------------|--------------|--------------------------------|----------------------------|----------------------------|
|  |             |                |                              |   |                   | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) |                            |   |                |                       |                              |              |                                |                            |                            |
| HA-1 (890-8318-1)                          | 6/19/25     | 13:00 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-1 (890-8318-2)                          | 6/19/25     | 13:05 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-1 (890-8318-3)                          | 6/19/25     | 13:10 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-1 (890-8318-4)                          | 6/19/25     | 13:15 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-1 (890-8318-5)                          | 6/19/25     | 13:20 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-2 (890-8318-6)                          | 6/19/25     | 13:25 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-2 (890-8318-7)                          | 6/19/25     | 13:30 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-2 (890-8318-8)                          | 6/19/25     | 13:35 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |
| HA-2 (890-8318-9)                          | 6/19/25     | 13:40 Mountain | G                            | Solid                                     |                   | X                                 | X                          | X                          | X | X              | X                     | X                            | X            | X                              | 1                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_ Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: 6/19/25 Time: 16:14

Relinquished by: *alish* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_

Received by: *[Signature]* Date/Time: 6/21/25 08:00 Company: \_\_\_\_\_

Received by: *[Signature]* Date/Time: 6/21/25 08:00 Company: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)



**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

### Chain of Custody Record



Environment Testing

**Client Information (Sub Contract Lab)**  
 Client Contact: Teel, Brianna  
 Shipping/Receiving: Brianna.Teel@et.eurofins.com  
 Company: Eurofins Environment Testing South Central  
 Address: 1211 W. Florida Ave., Midland, TX, 79701  
 Phone: 432-704-5440(Tel)  
 Project Name: ROSS DRAW UNIT #044H  
 Site: N/A

**Due Date Requested:** 6/26/2025  
**TAT Requested (days):** N/A  
**PO #:** N/A  
**WO #:** N/A  
**Project #:** 88001228  
**SSOW#:** N/A

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time    | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=soil, BT=trace, Acid) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total BTEX GCV | 80218/5035FP CalcBTEX | 300_ORGFM_28D/DI_LEACHchloride | 8015MOD_Calc | 8015MOD_NM/8015NM_S_Prep8015 NM | Analysis Requested | Total Number of containers | Special Instructions/Note: |
|--|-------------|----------------|------------------------------|---|-----------------------------------|----------------------------|----------------|-----------------------|--------------------------------|--------------|---------------------------------|--------------------|----------------------------|----------------------------|
| HA-2 (890-8318-10)                         | 6/19/25     | 13:45 Mountain | G                            | Solid   | X                                 | X                          | X              | X                     | X                              | X            | X                               |                    | 1                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Primary Deliverable Rank: 2  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

| Empty Kit Relinquished by:   | Date:      | Company | Method of Shipment: |
|------------------------------|------------|---------|---------------------|
| Relinquished by: <i>alsh</i> | 16:18 6/20 | Company | Date/Time: _____    |
| Relinquished by:             |            | Company | Date/Time: _____    |
| Relinquished by:             |            | Company | Date/Time: _____    |

Custody Seals Intact:  Yes  No  
 Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature: \_\_\_\_\_  
 Received by: *T. J. Funderlee*  
 Date/Time: *6/24/25 08:00*  
 Received by: *J.R.S*  
 Date/Time: *6/24/25 08:00*

### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8318-1  
SDG Number: Eddy County, NM

**Login Number: 8318**  
**List Number: 1**  
**Creator: Lopez, Abraham**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8318-1  
SDG Number: Eddy County, NM

**Login Number: 8318**  
**List Number: 2**  
**Creator: Rios, Minerva**

**List Source: Eurofins Midland**  
**List Creation: 06/23/25 11:02 AM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/25/2025 11:13:10 AM

## JOB DESCRIPTION

Ross Draw Unit #044H  
 Eddy County, NM

## JOB NUMBER

890-8319-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



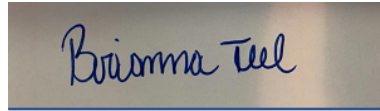
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
6/25/2025 11:13:10 AM

Authorized for release by  
Brianna Teel, Project Manager  
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Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Laboratory Job ID: 890-8319-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

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

## HPLC/IC

| Qualifier | Qualifier Description   |
|-----------|---|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1        | MS and/or MSD recovery exceeds control limits.  |
| U         | Indicates the analyte was analyzed for but not detected.  |

## Glossary

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

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**Case Narrative**

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8319-1

**Job ID: 890-8319-1****Eurofins Carlsbad****Job Narrative  
890-8319-1**

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

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

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

**Receipt**

The samples were received on 6/20/2025 3:22 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 0.2°C.

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 3 (890-8319-1), HA - 3 (890-8319-2), HA - 3 (890-8319-3), HA - 3 (890-8319-4), HA - 3 (890-8319-5), HA - 4 (890-8319-6), HA - 4 (890-8319-7), HA - 4 (890-8319-8), HA - 5 (890-8319-9), HA - 5 (890-8319-10), HA - 5 (890-8319-11), HA - 5 (890-8319-12), HA - 5 (890-8319-13), HA - 6 (890-8319-14), HA - 6 (890-8319-15), HA - 6 (890-8319-16), HA - 6 (890-8319-17), HA - 6 (890-8319-18), HA - 7 (890-8319-19), HA - 7 (890-8319-20), HA - 7 (890-8319-21), HA - 7 (890-8319-22) and HA - 7 (890-8319-23).

**GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-112755 and analytical batch 880-112727 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-112727 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-112727/20).

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-112767 and analytical batch 880-112828 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-112769 and analytical batch 880-112828 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 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-112767 and analytical batch 880-112828 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-112767/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: HA - 5 (890-8319-10) and HA - 7 (890-8319-19). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (890-8319-A-10-C MS) and (890-8319-A-10-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: HA - 6 (890-8319-18). Evidence of

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### Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8319-1

**Job ID: 890-8319-1 (Continued)**

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matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112811 and analytical batch 880-112848 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-1**

Date Collected: 06/19/25 13:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| Toluene             | <0.00200 | U F1      | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| Ethylbenzene        | <0.00200 | U F1 F2   | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U F1 F2   | 0.00401 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| o-Xylene            | <0.00200 | U F1 F2   | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| Xylenes, Total      | <0.00401 | U F1 F2   | 0.00401 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:28 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 12:28 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.3  | U         | 50.3 |     | mg/Kg |   |          | 06/23/25 21:16 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U *1      | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:16 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 120       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:16 | 1       |
| o-Terphenyl    | 123       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:16 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 540    |           | 9.92 |     | mg/Kg |   |          | 06/24/25 16:14 | 1       |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-2**

Date Collected: 06/19/25 13:55

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:48 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-2**

Date Collected: 06/19/25 13:55

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:48 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 12:48 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 21:31 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U *1      | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:31 | 1       |
| o-Terphenyl    | 124       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 21:31 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 373    |           | 9.92 |     | mg/Kg |   |          | 06/24/25 16:21 | 1       |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-3**

Date Collected: 06/19/25 14:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 13:09 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 13:09 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 13:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 06/23/25 21:46 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-3**

Date Collected: 06/19/25 14:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U *1      | 49.9     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 21:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 21:46 | 1       |
| o-Terphenyl                          | 121       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 21:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 994    |           | 9.92 |     | mg/Kg |   |          | 06/24/25 16:29 | 1       |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-4**

Date Collected: 06/19/25 14:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 13:29 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00397 | U         | 0.00397 |     | mg/Kg |   |          | 06/23/25 13:29 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 22:02 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U *1      | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 118       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 22:02 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 22:02 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-4**

Date Collected: 06/19/25 14:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1220   |           | 9.92 |     | mg/Kg |   |          | 06/24/25 19:02 | 1       |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-5**

Date Collected: 06/19/25 14:10

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| Toluene                     | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| Ethylbenzene                | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| m-Xylene & p-Xylene         | <0.00398         | U                | 0.00398       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| o-Xylene                    | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| Xylenes, Total              | <0.00398         | U                | 0.00398       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 113              |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |
| 1,4-Difluorobenzene (Surr)  | 94               |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 13:50  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 13:50 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 22:17 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6            | U                | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 22:17  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.6            | U *1             | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 22:17  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.6            | U                | 49.6          |     | mg/Kg |   | 06/23/25 10:11  | 06/23/25 22:17  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 123              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 22:17  | 1              |
| o-Terphenyl                          | 126              |                  | 70 - 130      |     |       |   | 06/23/25 10:11  | 06/23/25 22:17  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1150   |           | 9.96 |     | mg/Kg |   |          | 06/24/25 19:19 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-6**

Date Collected: 06/19/25 14:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:10 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:10 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:10 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 14:10 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.3  | U         | 50.3 |     | mg/Kg |   |          | 06/23/25 22:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U *1      | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:32 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 22:32 | 1       |
| o-Terphenyl    | 119       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 22:32 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 104    |           | 9.98 |     | mg/Kg |   |          | 06/24/25 19:25 | 1       |

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-7**

Date Collected: 06/19/25 14:20

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:31 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 116       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:31 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-7**

Date Collected: 06/19/25 14:20

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:31 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 06/23/25 14:31 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 22:47 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:47 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *1      | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 22:47 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 121       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 22:47 | 1       |
| o-Terphenyl    | 123       |           | 70 - 130 | 06/23/25 10:11 | 06/23/25 22:47 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 105    |           | 9.94 |     | mg/Kg |   |          | 06/24/25 19:30 | 1       |

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-8**

Date Collected: 06/19/25 14:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 14:51 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:51 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 14:51 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 14:51 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 23:02 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-8**

Date Collected: 06/19/25 14:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7     | U         | 49.7     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U *1      | 49.7     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 121       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 23:02 | 1       |
| o-Terphenyl                          | 123       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 23:02 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 129    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 19:36 | 1       |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-9**

Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 15:11 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 15:11 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 23:16 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U *1      | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:11 | 06/23/25 23:16 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 122       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 23:16 | 1       |
| o-Terphenyl                          | 124       |           | 70 - 130 |     |       |   | 06/23/25 10:11 | 06/23/25 23:16 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-9**

Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2150   |           | 50.1 |     | mg/Kg |   |          | 06/24/25 19:53 | 5       |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-10**

Date Collected: 06/20/25 10:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| Toluene                     | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| Ethylbenzene                | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| m-Xylene & p-Xylene         | <0.00402         | U                | 0.00402       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| o-Xylene                    | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| Xylenes, Total              | <0.00402         | U                | 0.00402       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 115              |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |
| 1,4-Difluorobenzene (Surr)  | 94               |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 15:32  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 15:32 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/24/25 01:15 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1            | U **             | 50.1          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 01:15  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.1            | U                | 50.1          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 01:15  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.1            | U                | 50.1          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 01:15  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 130              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 01:15  | 1              |
| o-Terphenyl                          | 131              | S1+              | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 01:15  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 520    |           | 9.90 |     | mg/Kg |   |          | 06/24/25 19:59 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-11**

Date Collected: 06/20/25 10:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:06 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:06 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 17:06 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.3  | U         | 50.3 |     | mg/Kg |   |          | 06/24/25 02:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.3  | U*        | 50.3 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.3  | U         | 50.3 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:01 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 02:01 | 1       |
| o-Terphenyl    | 127       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 02:01 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 271    |           | 9.90 |     | mg/Kg |   |          | 06/24/25 20:05 | 1       |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-12**

Date Collected: 06/20/25 10:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:27 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-12**

Date Collected: 06/20/25 10:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:27 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 06/23/25 17:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/24/25 02:15 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U **      | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:15 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 02:15 | 1       |
| o-Terphenyl    | 130       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 02:15 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 635    |           | 9.90 |     | mg/Kg |   |          | 06/24/25 20:10 | 1       |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-13**

Date Collected: 06/20/25 10:20

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 17:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:47 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 17:47 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 17:47 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/24/25 02:31 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-13**

Date Collected: 06/20/25 10:20

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U **      | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 126       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 02:31 | 1       |
| o-Terphenyl                          | 128       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 02:31 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 635    |           | 10.1 |     | mg/Kg |   |          | 06/24/25 20:16 | 1       |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-14**

Date Collected: 06/20/25 10:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 18:07 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 18:07 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/24/25 02:46 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6     | U **      | 49.6     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6     | U         | 49.6     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 02:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 129       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 02:46 | 1       |
| o-Terphenyl                          | 130       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 02:46 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-14**

Date Collected: 06/20/25 10:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2150   | F1        | 50.2 |     | mg/Kg |   |          | 06/24/25 20:21 | 5       |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-15**

Date Collected: 06/20/25 10:30

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| Toluene                     | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| Ethylbenzene                | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| m-Xylene & p-Xylene         | <0.00398         | U                | 0.00398       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| o-Xylene                    | <0.00199         | U                | 0.00199       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| Xylenes, Total              | <0.00398         | U                | 0.00398       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 116              |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |
| 1,4-Difluorobenzene (Surr)  | 93               |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 18:28  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 18:28 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 06/24/25 03:01 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U **             | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 03:01  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 03:01  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 03:01  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 127              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 03:01  | 1              |
| o-Terphenyl                          | 129              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 03:01  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 953    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 20:38 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-16**

Date Collected: 06/20/25 10:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 18:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 18:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 18:48 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 18:48 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/24/25 03:16 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U**       | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:16 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 128       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 03:16 | 1       |
| o-Terphenyl    | 130       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 03:16 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 183    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 20:44 | 1       |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-17**

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:09 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 19:09 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-17**

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 80        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 19:09 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 19:09 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 06/24/25 03:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U **      | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:30 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:30 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 03:30 | 1       |
| o-Terphenyl    | 127       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 03:30 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 302    |           | 10.1 |     | mg/Kg |   |          | 06/24/25 21:02 | 1       |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-18**

Date Collected: 06/20/25 10:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 19:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 06/23/25 09:51 | 06/23/25 19:29 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 19:29 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/24/25 03:46 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-18**

Date Collected: 06/20/25 10:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1     | U **      | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 03:46 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 132       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 03:46 | 1       |
| o-Terphenyl                          | 134       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 03:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 92.0   |           | 10.0 |     | mg/Kg |   |          | 06/24/25 21:07 | 1       |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-19**

Date Collected: 06/20/25 10:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| m-Xylene & p-Xylene         | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| Xylenes, Total              | <0.00401  | U         | 0.00401  |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |     |       |   | 06/23/25 09:51 | 06/23/25 19:49 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 19:49 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/24/25 04:01 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U **      | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:01 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 130       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 04:01 | 1       |
| o-Terphenyl                          | 133       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 04:01 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-19**

Date Collected: 06/20/25 10:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 194    |           | 9.90 |     | mg/Kg |   |          | 06/24/25 21:13 | 1       |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-20**

Date Collected: 06/20/25 10:55

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 1

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| Toluene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| Ethylbenzene                | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| m-Xylene & p-Xylene         | <0.00396         | U                | 0.00396       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| o-Xylene                    | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| Xylenes, Total              | <0.00396         | U                | 0.00396       |     | mg/Kg |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 114              |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |
| 1,4-Difluorobenzene (Surr)  | 94               |                  | 70 - 130      |     |       |   | 06/23/25 09:51  | 06/23/25 20:10  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 20:10 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 06/24/25 04:32 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8            | U **             | 49.8          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 04:32  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.8            | U                | 49.8          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 04:32  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.8            | U                | 49.8          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 04:32  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 123              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 04:32  | 1              |
| o-Terphenyl                          | 124              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 04:32  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 411    |           | 9.94 |     | mg/Kg |   |          | 06/24/25 21:19 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-21**

Date Collected: 06/20/25 11:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:05 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:05 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 19:05 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/24/25 04:48 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U**       | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 04:48 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 04:48 | 1       |
| o-Terphenyl    | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 04:48 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 97.2   |           | 10.0 |     | mg/Kg |   |          | 06/24/25 21:24 | 1       |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-22**

Date Collected: 06/20/25 11:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:25 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:25 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-22**

Date Collected: 06/20/25 11:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 3

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 106       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:25 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 19:25 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 |     | mg/Kg |   |          | 06/24/25 05:03 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U **      | 50.2 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:03 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:03 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:03 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 127       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:03 | 1       |
| o-Terphenyl    | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:03 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 534    |           | 9.98 |     | mg/Kg |   |          | 06/24/25 21:30 | 1       |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-23**

Date Collected: 06/20/25 11:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 19:46 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:46 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 19:46 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 19:46 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/24/25 05:18 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-23**

Date Collected: 06/20/25 11:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7  | U **      | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7  | U         | 49.7 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 124       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:18 | 1       |
| o-Terphenyl    | 127       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:18 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 246    |           | 10.0 |     | mg/Kg |   |          | 06/24/25 21:36 | 1       |

### Surrogate Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|--------------------|------------------------|--|-------------------|
|                    |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8319-1         | HA - 3                 | 114  | 90                |
| 890-8319-1 MS      | HA - 3                 | 107  | 100               |
| 890-8319-1 MSD     | HA - 3                 | 120  | 82                |
| 890-8319-2         | HA - 3                 | 113  | 93                |
| 890-8319-3         | HA - 3                 | 107  | 93                |
| 890-8319-4         | HA - 3                 | 107  | 93                |
| 890-8319-5         | HA - 3                 | 113  | 94                |
| 890-8319-6         | HA - 4                 | 105  | 96                |
| 890-8319-7         | HA - 4                 | 116  | 93                |
| 890-8319-8         | HA - 4                 | 107  | 94                |
| 890-8319-9         | HA - 5                 | 118  | 95                |
| 890-8319-10        | HA - 5                 | 115  | 94                |
| 890-8319-11        | HA - 5                 | 118  | 94                |
| 890-8319-12        | HA - 5                 | 113  | 93                |
| 890-8319-13        | HA - 5                 | 117  | 93                |
| 890-8319-14        | HA - 6                 | 114  | 96                |
| 890-8319-15        | HA - 6                 | 116  | 93                |
| 890-8319-16        | HA - 6                 | 110  | 93                |
| 890-8319-17        | HA - 6                 | 122  | 80                |
| 890-8319-18        | HA - 6                 | 112  | 90                |
| 890-8319-19        | HA - 7                 | 118  | 92                |
| 890-8319-20        | HA - 7                 | 114  | 94                |
| 890-8319-21        | HA - 7                 | 110  | 100               |
| 890-8319-22        | HA - 7                 | 109  | 106               |
| 890-8319-23        | HA - 7                 | 110  | 101               |
| LCS 880-112746/1-A | Lab Control Sample     | 95   | 93                |
| LCS 880-112755/1-A | Lab Control Sample     | 101  | 95                |
| LCS 880-112746/2-A | Lab Control Sample Dup | 91   | 89                |
| LCS 880-112755/2-A | Lab Control Sample Dup | 99   | 96                |
| MB 880-112746/5-A  | Method Blank           | 97   | 94                |
| MB 880-112755/5-A  | Method Blank           | 103  | 92                |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------|------------------|--|-------------------|
|               |                  | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8319-1    | HA - 3           | 120  | 123               |
| 890-8319-2    | HA - 3           | 121  | 124               |
| 890-8319-3    | HA - 3           | 118  | 121               |
| 890-8319-4    | HA - 3           | 118  | 120               |
| 890-8319-5    | HA - 3           | 123  | 126               |
| 890-8319-6    | HA - 4           | 117  | 119               |
| 890-8319-7    | HA - 4           | 121  | 123               |
| 890-8319-8    | HA - 4           | 121  | 123               |

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### Surrogate Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8319-9          | HA - 5                 | 122  | 124               |
| 890-8319-10         | HA - 5                 | 130  | 131 S1+           |
| 890-8319-10 MS      | HA - 5                 | 132 S1+  | 126               |
| 890-8319-10 MSD     | HA - 5                 | 133 S1+  | 126               |
| 890-8319-11         | HA - 5                 | 126  | 127               |
| 890-8319-12         | HA - 5                 | 129  | 130               |
| 890-8319-13         | HA - 5                 | 126  | 128               |
| 890-8319-14         | HA - 6                 | 129  | 130               |
| 890-8319-15         | HA - 6                 | 127  | 129               |
| 890-8319-16         | HA - 6                 | 128  | 130               |
| 890-8319-17         | HA - 6                 | 126  | 127               |
| 890-8319-18         | HA - 6                 | 132 S1+  | 134 S1+           |
| 890-8319-19         | HA - 7                 | 130  | 133 S1+           |
| 890-8319-20         | HA - 7                 | 123  | 124               |
| 890-8319-21         | HA - 7                 | 126  | 129               |
| 890-8319-22         | HA - 7                 | 127  | 129               |
| 890-8319-23         | HA - 7                 | 124  | 127               |
| LCS 880-112767/2-A  | Lab Control Sample     | 138 S1+  | 133 S1+           |
| LCS 880-112769/2-A  | Lab Control Sample     | 80   | 75                |
| LCSD 880-112767/3-A | Lab Control Sample Dup | 82   | 77                |
| LCSD 880-112769/3-A | Lab Control Sample Dup | 82   | 78                |
| MB 880-112767/1-A   | Method Blank           | 130  | 131 S1+           |
| MB 880-112769/1-A   | Method Blank           | 110  | 114               |

**Surrogate Legend**

1CO = 1-Chlorooctane  
 OTPH = o-Terphenyl

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112746/5-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

Lab Sample ID: LCS 880-112746/1-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1071     |               | mg/Kg |   | 107  | 70 - 130    |
| Toluene             | 0.100       | 0.1020     |               | mg/Kg |   | 102  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1050     |               | mg/Kg |   | 105  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2145     |               | mg/Kg |   | 107  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1075     |               | mg/Kg |   | 108  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: LCSD 880-112746/2-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35        |
| Toluene             | 0.100       | 0.1008      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.1042      |                | mg/Kg |   | 104  | 70 - 130    | 1   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2109      |                | mg/Kg |   | 105  | 70 - 130    | 2   | 35        |
| o-Xylene            | 0.100       | 0.1060      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 91             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

Lab Sample ID: MB 880-112755/5-A  
 Matrix: Solid  
 Analysis Batch: 112727

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112755

| Analyte | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |
| Toluene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112755/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112727

Prep Batch: 112755

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:51 | 06/23/25 12:06 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 | 06/23/25 09:51 | 06/23/25 12:06 | 1       |

Lab Sample ID: LCS 880-112755/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112727

Prep Batch: 112755

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1226     |               | mg/Kg |   | 123  | 70 - 130    |
| Toluene             | 0.100       | 0.09991    |               | mg/Kg |   | 100  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1030     |               | mg/Kg |   | 103  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2048     |               | mg/Kg |   | 102  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1021     |               | mg/Kg |   | 102  | 70 - 130    |

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

Lab Sample ID: LCSD 880-112755/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112727

Prep Batch: 112755

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1245      |                | mg/Kg |   | 125  | 70 - 130    | 2   | 35        |
| Toluene             | 0.100       | 0.1014      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.1051      |                | mg/Kg |   | 105  | 70 - 130    | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2088      |                | mg/Kg |   | 104  | 70 - 130    | 2   | 35        |
| o-Xylene            | 0.100       | 0.1044      |                | mg/Kg |   | 104  | 70 - 130    | 2   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96             |                | 70 - 130 |

Lab Sample ID: 890-8319-1 MS

Client Sample ID: HA - 3

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112727

Prep Batch: 112755

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00200      | U                | 0.100       | 0.1160    |              | mg/Kg |   | 116  | 70 - 130    |
| Toluene             | <0.00200      | U F1             | 0.100       | 0.09740   |              | mg/Kg |   | 97   | 70 - 130    |
| Ethylbenzene        | <0.00200      | U F1 F2          | 0.100       | 0.1021    |              | mg/Kg |   | 102  | 70 - 130    |
| m-Xylene & p-Xylene | <0.00401      | U F1 F2          | 0.200       | 0.2040    |              | mg/Kg |   | 102  | 70 - 130    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8319-1 MS  
 Matrix: Solid  
 Analysis Batch: 112727

Client Sample ID: HA - 3  
 Prep Type: Total/NA  
 Prep Batch: 112755

| Analyte                     | Sample           | Sample                 | Spike         | MS     | MS        | Unit  | D | %Rec | %Rec | Limits   |
|-----------------------------|------------------|------------------------|---------------|--------|-----------|-------|---|------|------|----------|
|                             | Result           | Qualifier              |               | Result | Qualifier |       |   |      |      |          |
| o-Xylene                    | <0.00200         | U F1 F2                | 0.100         | 0.1024 |           | mg/Kg |   | 102  |      | 70 - 130 |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>MS MS Qualifier</b> | <b>Limits</b> |        |           |       |   |      |      |          |
| 4-Bromofluorobenzene (Surr) | 107              |                        | 70 - 130      |        |           |       |   |      |      |          |
| 1,4-Difluorobenzene (Surr)  | 100              |                        | 70 - 130      |        |           |       |   |      |      |          |

Lab Sample ID: 890-8319-1 MSD  
 Matrix: Solid  
 Analysis Batch: 112727

Client Sample ID: HA - 3  
 Prep Type: Total/NA  
 Prep Batch: 112755

| Analyte                     | Sample           | Sample                   | Spike         | MSD    | MSD       | Unit  | D | %Rec | %Rec | Limits   | RPD | RPD   | Limit |
|-----------------------------|------------------|--------------------------|---------------|--------|-----------|-------|---|------|------|----------|-----|-------|-------|
|                             | Result           | Qualifier                |               | Result | Qualifier |       |   |      |      |          | RPD | Limit |       |
| Benzene                     | <0.00200         | U                        | 0.100         | 0.1187 |           | mg/Kg |   | 119  |      | 70 - 130 | 2   |       | 35    |
| Toluene                     | <0.00200         | U F1                     | 0.100         | 0.1306 | F1        | mg/Kg |   | 131  |      | 70 - 130 | 29  |       | 35    |
| Ethylbenzene                | <0.00200         | U F1 F2                  | 0.100         | 0.1494 | F1 F2     | mg/Kg |   | 149  |      | 70 - 130 | 38  |       | 35    |
| m-Xylene & p-Xylene         | <0.00401         | U F1 F2                  | 0.200         | 0.3040 | F1 F2     | mg/Kg |   | 152  |      | 70 - 130 | 39  |       | 35    |
| o-Xylene                    | <0.00200         | U F1 F2                  | 0.100         | 0.1497 | F1 F2     | mg/Kg |   | 150  |      | 70 - 130 | 38  |       | 35    |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>MSD MSD Qualifier</b> | <b>Limits</b> |        |           |       |   |      |      |          |     |       |       |
| 4-Bromofluorobenzene (Surr) | 120              |                          | 70 - 130      |        |           |       |   |      |      |          |     |       |       |
| 1,4-Difluorobenzene (Surr)  | 82               |                          | 70 - 130      |        |           |       |   |      |      |          |     |       |       |

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

Lab Sample ID: MB 880-112767/1-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Analyte                              | MB               | MB                     | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
|                                      | Result           | Qualifier              |               |     |       |   |                 |                 |                |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                      | 50.0          |     | mg/Kg |   | 06/23/25 10:10  | 06/23/25 09:14  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                      | 50.0          |     | mg/Kg |   | 06/23/25 10:10  | 06/23/25 09:14  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                      | 50.0          |     | mg/Kg |   | 06/23/25 10:10  | 06/23/25 09:14  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>MB MB Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 130              |                        | 70 - 130      |     |       |   | 06/23/25 10:10  | 06/23/25 09:14  | 1              |
| o-Terphenyl                          | 131              | S1+                    | 70 - 130      |     |       |   | 06/23/25 10:10  | 06/23/25 09:14  | 1              |

Lab Sample ID: LCS 880-112767/2-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112767

| Analyte                              | Spike | LCS  | LCS | Unit  | D | %Rec | %Rec | Limits   |
|--------------------------------------|-------|------|-----|-------|---|------|------|----------|
|                                      |       |      |     |       |   |      |      |          |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 1247 |     | mg/Kg |   | 125  |      | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000  | 1212 |     | mg/Kg |   | 121  |      | 70 - 130 |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

**Lab Sample ID: LCS 880-112767/2-A**  
**Matrix: Solid**  
**Analysis Batch: 112828**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 112767**

| Surrogate      | LCS LCS   |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 138       | S1+       | 70 - 130 |
| o-Terphenyl    | 133       | S1+       | 70 - 130 |

**Lab Sample ID: LCSD 880-112767/3-A**  
**Matrix: Solid**  
**Analysis Batch: 112828**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 112767**

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|----------|-----|-----|-------|
|                                      |             |             |                |       |   |      | Limits   | RPD |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1069        |                | mg/Kg |   | 107  | 70 - 130 | 15  | 20  |       |
| Diesel Range Organics (Over C10-C28) | 1000        | 869.3       | *1             | mg/Kg |   | 87   | 70 - 130 | 33  | 20  |       |

| Surrogate      | LCSD LCSD |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 82        |           | 70 - 130 |
| o-Terphenyl    | 77        |           | 70 - 130 |

**Lab Sample ID: MB 880-112769/1-A**  
**Matrix: Solid**  
**Analysis Batch: 112828**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 112769**

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
|                                      |           |              |      |     |       |   |                |                |         |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 00:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 00:31 | 1       |

| Surrogate      | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 110       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 00:31 | 1       |
| o-Terphenyl    | 114       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 00:31 | 1       |

**Lab Sample ID: LCS 880-112769/2-A**  
**Matrix: Solid**  
**Analysis Batch: 112828**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 112769**

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec     |  |
|--------------------------------------|-------------|------------|---------------|-------|---|------|----------|--|
|                                      |             |            |               |       |   |      | Limits   |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1286       |               | mg/Kg |   | 129  | 70 - 130 |  |
| Diesel Range Organics (Over C10-C28) | 1000        | 1109       |               | mg/Kg |   | 111  | 70 - 130 |  |

| Surrogate      | LCS LCS   |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 80        |           | 70 - 130 |
| o-Terphenyl    | 75        |           | 70 - 130 |

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-112769/3-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | Spike Added | LCSD Result      | LCSD Qualifier   | Unit          | D | %Rec | %Rec     |     | RPD | Limit |
|--------------------------------------|-------------|------------------|------------------|---------------|---|------|----------|-----|-----|-------|
|                                      |             |                  |                  |               |   |      | Limits   | RPD |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1311             | *+               | mg/Kg         |   | 131  | 70 - 130 | 2   | 20  |       |
| Diesel Range Organics (Over C10-C28) | 1000        | 1161             |                  | mg/Kg         |   | 116  | 70 - 130 | 5   | 20  |       |
|                                      |             | <b>LCSD</b>      | <b>LCSD</b>      |               |   |      |          |     |     |       |
| <b>Surrogate</b>                     |             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |   |      |          |     |     |       |
| 1-Chlorooctane                       |             | 82               |                  | 70 - 130      |   |      |          |     |     |       |
| o-Terphenyl                          |             | 78               |                  | 70 - 130      |   |      |          |     |     |       |

Lab Sample ID: 890-8319-10 MS  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: HA - 5  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | Sample Result | Sample Qualifier | Spike Added      | MS Result     | MS Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|--------------------------------------|---------------|------------------|------------------|---------------|--------------|-------|---|------|----------|-----|-----|-------|
|                                      |               |                  |                  |               |              |       |   |      | Limits   | RPD |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1         | U *              | 999              | 974.9         |              | mg/Kg |   | 98   | 70 - 130 |     |     |       |
| Diesel Range Organics (Over C10-C28) | <50.1         | U                | 999              | 821.4         |              | mg/Kg |   | 82   | 70 - 130 |     |     |       |
|                                      |               | <b>MS</b>        | <b>MS</b>        |               |              |       |   |      |          |     |     |       |
| <b>Surrogate</b>                     |               | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |              |       |   |      |          |     |     |       |
| 1-Chlorooctane                       |               | 132              | S1+              | 70 - 130      |              |       |   |      |          |     |     |       |
| o-Terphenyl                          |               | 126              |                  | 70 - 130      |              |       |   |      |          |     |     |       |

Lab Sample ID: 890-8319-10 MSD  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: HA - 5  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | Sample Result | Sample Qualifier | Spike Added      | MSD Result    | MSD Qualifier | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|--------------------------------------|---------------|------------------|------------------|---------------|---------------|-------|---|------|----------|-----|-----|-------|
|                                      |               |                  |                  |               |               |       |   |      | Limits   | RPD |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1         | U *              | 999              | 930.2         |               | mg/Kg |   | 93   | 70 - 130 | 5   | 20  |       |
| Diesel Range Organics (Over C10-C28) | <50.1         | U                | 999              | 815.4         |               | mg/Kg |   | 82   | 70 - 130 | 1   | 20  |       |
|                                      |               | <b>MSD</b>       | <b>MSD</b>       |               |               |       |   |      |          |     |     |       |
| <b>Surrogate</b>                     |               | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |               |       |   |      |          |     |     |       |
| 1-Chlorooctane                       |               | 133              | S1+              | 70 - 130      |               |       |   |      |          |     |     |       |
| o-Terphenyl                          |               | 126              |                  | 70 - 130      |               |       |   |      |          |     |     |       |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112811/1-A  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|----|-----|------|---|----------|----------|---------|
|         |           |              |    |     |      |   |          |          |         |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-112811/2-A  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

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

Lab Sample ID: LCSD 880-112811/3-A  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 248.0       |                | mg/Kg |   | 99   | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-8319-4 MS  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: HA - 3  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 1220          |                  | 248         | 1423      | 4            | mg/Kg |   | 81   | 90 - 110    |

Lab Sample ID: 890-8319-4 MSD  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: HA - 3  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 1220          |                  | 248         | 1426       | 4             | mg/Kg |   | 82   | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-8319-14 MS  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: HA - 6  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 2150          | F1               | 1260        | 3675      | F1           | mg/Kg |   | 121  | 90 - 110    |

Lab Sample ID: 890-8319-14 MSD  
 Matrix: Solid  
 Analysis Batch: 112848

Client Sample ID: HA - 6  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 2150          | F1               | 1260        | 3679       | F1            | mg/Kg |   | 121  | 90 - 110    | 0   | 20        |

Lab Sample ID: MB 880-112810/1-A  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0     | U            | 10.0 |     | mg/Kg |   |          | 06/24/25 12:53 | 1       |

Lab Sample ID: LCS 880-112810/2-A  
 Matrix: Solid  
 Analysis Batch: 112850

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 254.5      |               | mg/Kg |   | 102  | 90 - 110    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
SDG: Eddy County, NM

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-112810/3-A  
Matrix: Solid  
Analysis Batch: 112850

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 252.8       |                | mg/Kg |   | 101  | 90 - 110    | 1   | 20        |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

#### GC VOA

##### Analysis Batch: 112726

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-21         | HA - 7                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8319-22         | HA - 7                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8319-23         | HA - 7                 | Total/NA  | Solid  | 8021B  | 112746     |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112746     |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112746     |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112746     |

##### Analysis Batch: 112727

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-1          | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-2          | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-3          | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-4          | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-5          | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-6          | HA - 4                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-7          | HA - 4                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-8          | HA - 4                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-9          | HA - 5                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-10         | HA - 5                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-11         | HA - 5                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-12         | HA - 5                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-13         | HA - 5                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-14         | HA - 6                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-15         | HA - 6                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-16         | HA - 6                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-17         | HA - 6                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-18         | HA - 6                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-19         | HA - 7                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-20         | HA - 7                 | Total/NA  | Solid  | 8021B  | 112755     |
| MB 880-112755/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112755     |
| LCS 880-112755/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112755     |
| LCSD 880-112755/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-1 MS       | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |
| 890-8319-1 MSD      | HA - 3                 | Total/NA  | Solid  | 8021B  | 112755     |

##### Prep Batch: 112746

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-21         | HA - 7                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-22         | HA - 7                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-23         | HA - 7                 | Total/NA  | Solid  | 5035   |            |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

##### Prep Batch: 112755

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-8319-1    | HA - 3           | Total/NA  | Solid  | 5035   |            |
| 890-8319-2    | HA - 3           | Total/NA  | Solid  | 5035   |            |
| 890-8319-3    | HA - 3           | Total/NA  | Solid  | 5035   |            |
| 890-8319-4    | HA - 3           | Total/NA  | Solid  | 5035   |            |
| 890-8319-5    | HA - 3           | Total/NA  | Solid  | 5035   |            |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

#### GC VOA (Continued)

##### Prep Batch: 112755 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-6           | HA - 4                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-7           | HA - 4                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-8           | HA - 4                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-9           | HA - 5                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-10          | HA - 5                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-11          | HA - 5                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-12          | HA - 5                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-13          | HA - 5                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-14          | HA - 6                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-15          | HA - 6                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-16          | HA - 6                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-17          | HA - 6                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-18          | HA - 6                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-19          | HA - 7                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-20          | HA - 7                 | Total/NA  | Solid  | 5035   |            |
| MB 880-112755/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112755/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCS D 880-112755/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-8319-1 MS        | HA - 3                 | Total/NA  | Solid  | 5035   |            |
| 890-8319-1 MSD       | HA - 3                 | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 112956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8319-1    | HA - 3           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-2    | HA - 3           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-3    | HA - 3           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-4    | HA - 3           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-5    | HA - 3           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-6    | HA - 4           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-7    | HA - 4           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-8    | HA - 4           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-9    | HA - 5           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-10   | HA - 5           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-11   | HA - 5           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-12   | HA - 5           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-13   | HA - 5           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-14   | HA - 6           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-15   | HA - 6           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-16   | HA - 6           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-17   | HA - 6           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-18   | HA - 6           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-19   | HA - 7           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-20   | HA - 7           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-21   | HA - 7           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-22   | HA - 7           | Total/NA  | Solid  | Total BTEX |            |
| 890-8319-23   | HA - 7           | Total/NA  | Solid  | Total BTEX |            |

### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

#### GC Semi VOA

##### Prep Batch: 112767

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8319-1          | HA - 3                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-2          | HA - 3                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-3          | HA - 3                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-4          | HA - 3                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-5          | HA - 3                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-6          | HA - 4                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-7          | HA - 4                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-8          | HA - 4                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-9          | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112767/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112767/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112767/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

##### Prep Batch: 112769

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8319-10         | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-11         | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-12         | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-13         | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-14         | HA - 6                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-15         | HA - 6                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-16         | HA - 6                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-17         | HA - 6                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-18         | HA - 6                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-19         | HA - 7                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-20         | HA - 7                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-21         | HA - 7                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-22         | HA - 7                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-23         | HA - 7                 | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112769/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112769/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112769/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-10 MS      | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8319-10 MSD     | HA - 5                 | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 112828

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-8319-1    | HA - 3           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-2    | HA - 3           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-3    | HA - 3           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-4    | HA - 3           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-5    | HA - 3           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-6    | HA - 4           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-7    | HA - 4           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-8    | HA - 4           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-9    | HA - 5           | Total/NA  | Solid  | 8015B NM | 112767     |
| 890-8319-10   | HA - 5           | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-11   | HA - 5           | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-12   | HA - 5           | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-13   | HA - 5           | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-14   | HA - 6           | Total/NA  | Solid  | 8015B NM | 112769     |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

## GC Semi VOA (Continued)

## Analysis Batch: 112828 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-8319-15        | HA - 6                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-16        | HA - 6                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-17        | HA - 6                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-18        | HA - 6                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-19        | HA - 7                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-20        | HA - 7                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-21        | HA - 7                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-22        | HA - 7                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-23        | HA - 7                 | Total/NA  | Solid  | 8015B NM | 112769     |
| MB 880-112767/1-A  | Method Blank           | Total/NA  | Solid  | 8015B NM | 112767     |
| MB 880-112769/1-A  | Method Blank           | Total/NA  | Solid  | 8015B NM | 112769     |
| LCS 880-112767/2-A | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112767     |
| LCS 880-112769/2-A | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112769     |
| LCS 880-112767/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112767     |
| LCS 880-112769/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-10 MS     | HA - 5                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8319-10 MSD    | HA - 5                 | Total/NA  | Solid  | 8015B NM | 112769     |

## Analysis Batch: 112907

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8319-1    | HA - 3           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-2    | HA - 3           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-3    | HA - 3           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-4    | HA - 3           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-5    | HA - 3           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-6    | HA - 4           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-7    | HA - 4           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-8    | HA - 4           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-9    | HA - 5           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-10   | HA - 5           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-11   | HA - 5           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-12   | HA - 5           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-13   | HA - 5           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-14   | HA - 6           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-15   | HA - 6           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-16   | HA - 6           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-17   | HA - 6           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-18   | HA - 6           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-19   | HA - 7           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-20   | HA - 7           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-21   | HA - 7           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-22   | HA - 7           | Total/NA  | Solid  | 8015 NM |            |
| 890-8319-23   | HA - 7           | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 112810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 890-8319-1    | HA - 3           | Soluble   | Solid  | DI Leach |            |
| 890-8319-2    | HA - 3           | Soluble   | Solid  | DI Leach |            |
| 890-8319-3    | HA - 3           | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
SDG: Eddy County, NM

## HPLC/IC (Continued)

## Leach Batch: 112810 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| MB 880-112810/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112810/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-112810/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 112811

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8319-4          | HA - 3                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-5          | HA - 3                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-6          | HA - 4                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-7          | HA - 4                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-8          | HA - 4                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-9          | HA - 5                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-10         | HA - 5                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-11         | HA - 5                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-12         | HA - 5                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-13         | HA - 5                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-14         | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-15         | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-16         | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-17         | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-18         | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-19         | HA - 7                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-20         | HA - 7                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-21         | HA - 7                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-22         | HA - 7                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-23         | HA - 7                 | Soluble   | Solid  | DI Leach |            |
| MB 880-112811/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112811/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-112811/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-8319-4 MS       | HA - 3                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-4 MSD      | HA - 3                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-14 MS      | HA - 6                 | Soluble   | Solid  | DI Leach |            |
| 890-8319-14 MSD     | HA - 6                 | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 112848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-8319-4    | HA - 3           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-5    | HA - 3           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-6    | HA - 4           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-7    | HA - 4           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-8    | HA - 4           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-9    | HA - 5           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-10   | HA - 5           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-11   | HA - 5           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-12   | HA - 5           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-13   | HA - 5           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-14   | HA - 6           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-15   | HA - 6           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-16   | HA - 6           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-17   | HA - 6           | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-18   | HA - 6           | Soluble   | Solid  | 300.0  | 112811     |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

#### HPLC/IC (Continued)

##### Analysis Batch: 112848 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-19         | HA - 7                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-20         | HA - 7                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-21         | HA - 7                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-22         | HA - 7                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-23         | HA - 7                 | Soluble   | Solid  | 300.0  | 112811     |
| MB 880-112811/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112811     |
| LCS 880-112811/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112811     |
| LCSD 880-112811/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-4 MS       | HA - 3                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-4 MSD      | HA - 3                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-14 MS      | HA - 6                 | Soluble   | Solid  | 300.0  | 112811     |
| 890-8319-14 MSD     | HA - 6                 | Soluble   | Solid  | 300.0  | 112811     |

##### Analysis Batch: 112850

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8319-1          | HA - 3                 | Soluble   | Solid  | 300.0  | 112810     |
| 890-8319-2          | HA - 3                 | Soluble   | Solid  | 300.0  | 112810     |
| 890-8319-3          | HA - 3                 | Soluble   | Solid  | 300.0  | 112810     |
| MB 880-112810/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112810     |
| LCS 880-112810/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112810     |
| LCSD 880-112810/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112810     |

### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-1**

Date Collected: 06/19/25 13:50

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 12:28       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 12:28       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 21:16       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.94 g         | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 21:16       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 16:14       | CS      | EET MID |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-2**

Date Collected: 06/19/25 13:55

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 12:48       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 12:48       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 21:31       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 21:31       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 16:21       | CS      | EET MID |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-3**

Date Collected: 06/19/25 14:00

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 13:09       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 13:09       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 21:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 21:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 112810       | 06/23/25 14:04       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112850       | 06/24/25 16:29       | CS      | EET MID |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-4**

Date Collected: 06/19/25 14:05

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 13:29       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 13:29       | SA      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-4**

Date Collected: 06/19/25 14:05

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 22:02       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 22:02       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:02       | CS      | EET MID |

**Client Sample ID: HA - 3**

**Lab Sample ID: 890-8319-5**

Date Collected: 06/19/25 14:10

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 13:50       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 13:50       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 22:17       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 22:17       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:19       | CS      | EET MID |

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-6**

Date Collected: 06/19/25 14:15

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 14:10       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 14:10       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 22:32       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.95 g         | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 22:32       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:25       | CS      | EET MID |

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-7**

Date Collected: 06/19/25 14:20

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 14:31       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 14:31       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 22:47       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 22:47       | TKC     | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-7**

Date Collected: 06/19/25 14:20

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:30       | CS      | EET MID |

**Client Sample ID: HA - 4**

**Lab Sample ID: 890-8319-8**

Date Collected: 06/19/25 14:25

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 14:51       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 14:51       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 23:02       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 23:02       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:36       | CS      | EET MID |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-9**

Date Collected: 06/20/25 10:00

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 15:11       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 15:11       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/23/25 23:16       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112767       | 06/23/25 10:11       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/23/25 23:16       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 112848       | 06/24/25 19:53       | CS      | EET MID |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-10**

Date Collected: 06/20/25 10:05

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 15:32       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 15:32       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 01:15       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.99 g         | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 01:15       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 19:59       | CS      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-11**

Date Collected: 06/20/25 10:10

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 17:06       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 17:06       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 02:01       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.95 g         | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 02:01       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 20:05       | CS      | EET MID |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-12**

Date Collected: 06/20/25 10:15

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 17:27       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 17:27       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 02:15       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 02:15       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 20:10       | CS      | EET MID |

**Client Sample ID: HA - 5**

**Lab Sample ID: 890-8319-13**

Date Collected: 06/20/25 10:20

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 17:47       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 17:47       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 02:31       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 02:31       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 20:16       | CS      | EET MID |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-14**

Date Collected: 06/20/25 10:25

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 18:07       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 18:07       | SA      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-14**

Date Collected: 06/20/25 10:25

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 02:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 02:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 112848       | 06/24/25 20:21       | CS      | EET MID |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-15**

Date Collected: 06/20/25 10:30

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 18:28       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 18:28       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 03:01       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 03:01       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 20:38       | CS      | EET MID |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-16**

Date Collected: 06/20/25 10:35

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 18:48       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 18:48       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 03:16       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 03:16       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 20:44       | CS      | EET MID |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-17**

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 19:09       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:09       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 03:30       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 03:30       | TKC     | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-17**

Date Collected: 06/20/25 10:40

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:02       | CS      | EET MID |

**Client Sample ID: HA - 6**

**Lab Sample ID: 890-8319-18**

Date Collected: 06/20/25 10:45

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 19:29       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:29       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 03:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 03:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:07       | CS      | EET MID |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-19**

Date Collected: 06/20/25 10:50

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 19:49       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:49       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 04:01       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 04:01       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:13       | CS      | EET MID |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-20**

Date Collected: 06/20/25 10:55

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112755       | 06/23/25 09:51       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112727       | 06/23/25 20:10       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 20:10       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 04:32       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 04:32       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:19       | CS      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-21**

Date Collected: 06/20/25 11:00

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 19:05       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:05       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 04:48       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 04:48       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.00 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:24       | CS      | EET MID |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-22**

Date Collected: 06/20/25 11:05

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 19:25       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:25       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 05:03       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 05:03       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:30       | CS      | EET MID |

**Client Sample ID: HA - 7**

**Lab Sample ID: 890-8319-23**

Date Collected: 06/20/25 11:10

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 19:46       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112956       | 06/23/25 19:46       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112907       | 06/24/25 05:18       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 05:18       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 112811       | 06/23/25 14:07       | SA      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112848       | 06/24/25 21:36       | CS      | 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: Ross Draw Unit #044H

Job ID: 890-8319-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-25        |

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

### Method Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy 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: Ross Draw Unit #044H

Job ID: 890-8319-1  
 SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8319-1    | HA - 3           | Solid  | 06/19/25 13:50 | 06/20/25 15:22 | 0.5   |
| 890-8319-2    | HA - 3           | Solid  | 06/19/25 13:55 | 06/20/25 15:22 | 1     |
| 890-8319-3    | HA - 3           | Solid  | 06/19/25 14:00 | 06/20/25 15:22 | 2     |
| 890-8319-4    | HA - 3           | Solid  | 06/19/25 14:05 | 06/20/25 15:22 | 3     |
| 890-8319-5    | HA - 3           | Solid  | 06/19/25 14:10 | 06/20/25 15:22 | 4     |
| 890-8319-6    | HA - 4           | Solid  | 06/19/25 14:15 | 06/20/25 15:22 | 0.5   |
| 890-8319-7    | HA - 4           | Solid  | 06/19/25 14:20 | 06/20/25 15:22 | 2     |
| 890-8319-8    | HA - 4           | Solid  | 06/19/25 14:25 | 06/20/25 15:22 | 3     |
| 890-8319-9    | HA - 5           | Solid  | 06/20/25 10:00 | 06/20/25 15:22 | 0.5   |
| 890-8319-10   | HA - 5           | Solid  | 06/20/25 10:05 | 06/20/25 15:22 | 1     |
| 890-8319-11   | HA - 5           | Solid  | 06/20/25 10:10 | 06/20/25 15:22 | 2     |
| 890-8319-12   | HA - 5           | Solid  | 06/20/25 10:15 | 06/20/25 15:22 | 3     |
| 890-8319-13   | HA - 5           | Solid  | 06/20/25 10:20 | 06/20/25 15:22 | 4     |
| 890-8319-14   | HA - 6           | Solid  | 06/20/25 10:25 | 06/20/25 15:22 | 0.5   |
| 890-8319-15   | HA - 6           | Solid  | 06/20/25 10:30 | 06/20/25 15:22 | 1     |
| 890-8319-16   | HA - 6           | Solid  | 06/20/25 10:35 | 06/20/25 15:22 | 2     |
| 890-8319-17   | HA - 6           | Solid  | 06/20/25 10:40 | 06/20/25 15:22 | 3     |
| 890-8319-18   | HA - 6           | Solid  | 06/20/25 10:45 | 06/20/25 15:22 | 4     |
| 890-8319-19   | HA - 7           | Solid  | 06/20/25 10:50 | 06/20/25 15:22 | 0.5   |
| 890-8319-20   | HA - 7           | Solid  | 06/20/25 10:55 | 06/20/25 15:22 | 1     |
| 890-8319-21   | HA - 7           | Solid  | 06/20/25 11:00 | 06/20/25 15:22 | 2     |
| 890-8319-22   | HA - 7           | Solid  | 06/20/25 11:05 | 06/20/25 15:22 | 3     |
| 890-8319-23   | HA - 7           | Solid  | 06/20/25 11:10 | 06/20/25 15:22 | 4     |

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Environment Testing  
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### Chain of Custody

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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 3

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

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

|                   |                      |   |   |
|-------------------|----------------------|---|---|
| Project Name:     | ROSS DRAW UNIT #044H | Turn Around   | Pres. Code  |
| Project Number:   | 155                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |   |
| Project Location: | Eddy County, NM      | Due Date:   |   |
| Sampler's Name:   | Santiago Giron       | TAT starts the day received by the lab, if received by 4:30pm             |   |
| CCWO #:           | 21547716             | Wet Ice:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

|                           |   |   |                 |          |
|---------------------------|---|---|-----------------|----------|
| SAMPLE RECEIPT            | Temp Blank:   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Thermometer ID: | Turncoo7 |
| Samples Received In tact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor:  | 0.9             |          |
| Cooler Custody Seals:     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Temperature Reading:  | 0.9             |          |
| Sample Custody Seals:     | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Corrected Temperature:  | 0.9             |          |
| Total Containers:         |   |   |                 |          |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth (feet) | Grab/Comp # of Cont | TPH -NM | Chloride -NM | BTEX -NM | Hold | 24 Hr Rush | Sample Comments |
|-----------------------|--------|--------------|--------------|--------------|---------------------|---------|--------------|----------|------|------------|-----------------|
| HA-3                  | S      | 6.19.25      | 13:50        | 0.5          | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-3                  | S      | 6.19.25      | 13:55        | 1            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-3                  | S      | 6.19.25      | 14:00        | 2            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-3                  | S      | 6.19.25      | 14:05        | 3            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-3                  | S      | 6.19.25      | 14:10        | 4            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-4                  | S      | 6.19.25      | 14:15        | 0.5          | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-4                  | S      | 6.19.25      | 14:20        | 2            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-4                  | S      | 6.19.25      | 14:25        | 3            | Grab/ 1             | X       | X            | X        |      |            |                 |
| HA-5                  | S      | 6.20.25      | 10:00        | 0.5          | Grab/ 1             | X       | X            | X        |      |            |                 |

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

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

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

|                              |                          |            |                              |                          |           |
|------------------------------|--------------------------|------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time  | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/20/15 28 |                              |                          |           |
|                              |                          |            |                              |                          |           |
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: \_\_\_\_\_

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Page 2 of 3

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

Bill to: (if different)  
Company Name: Devon Energy  
Address: \_\_\_\_\_  
City, State ZIP: \_\_\_\_\_

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

| Project Name:            | ROSS DRAW UNIT #044H | Turn Around   | Pres. Code   | ANALYSIS REQUEST |           |           |         |             |         |      |            |                                |  |   | Preservative Codes                              |  |  |  |  |  |  |
|--------------------------|----------------------|---|--------------|------------------|-----------|-----------|---------|-------------|---------|------|------------|--------------------------------|--|---|---|--|--|--|--|--|--|
| Project Number:          | 155                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |              |                  |           |           |         |             |         |      |            |                                |  |   | None; NO  |  |  |  |  |  |  |
| Project Location:        | Eddy County, NM      | Due Date:   |              |                  |           |           |         |             |         |      |            |                                |  |   | DI Water; H <sub>2</sub> O                      |  |  |  |  |  |  |
| Sampler's Name:          | Santiago Giron       | TAT starts the day received by the lab, if received by 4:30pm             |              |                  |           |           |         |             |         |      |            |                                |  |   | Cool: Cool                                      |  |  |  |  |  |  |
| CCMO #:                  | 21547716             |   |              |                  |           |           |         |             |         |      |            |                                |  |   | HCl: HC   |  |  |  |  |  |  |
| SAMPLE RECEIPT           | Temp Blank:          | Yes No  | Wet Ice:     |                  |           |           |         |             |         |      |            |                                |  |   | H <sub>2</sub> SO <sub>4</sub> ; H <sub>2</sub> |  |  |  |  |  |  |
|                          | Thermometer ID:      | 1111111   |              |                  |           |           |         |             |         |      |            |                                |  |   | H <sub>3</sub> PO <sub>4</sub> ; HP             |  |  |  |  |  |  |
| Samples Received Intact: | Yes No               | Correction Factor:  |              |                  |           |           |         |             |         |      |            |                                |  | NaHSO <sub>4</sub> ; NABIS  |   |  |  |  |  |  |  |
| Cooler Custody Seals:    | Yes No               | Temperature Reading:  |              |                  |           |           |         |             |         |      |            |                                |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; NaSO <sub>3</sub> |   |  |  |  |  |  |  |
| Sample Custody Seals:    | Yes No               | Corrected Temperature:  |              |                  |           |           |         |             |         |      |            |                                |  | Zn+Acetate+NaOH; Zn   |   |  |  |  |  |  |  |
| Total Containers:        |                      |   |              |                  |           |           |         |             |         |      |            |                                |  | NaOH+Ascorbic Acid; S-APC   |   |  |  |  |  |  |  |
| Sample Identification    | Matrix               | Date Sampled  | Time Sampled | Depth (feet)     | Grab/Comp | # of Cont | TPH -NM | Chloride-NM | BTEX-NM | Hold | 24 Hr Rush | Sample Comments                |  |   |   |  |  |  |  |  |  |
| HA-5                     | S                    | 6.20.25   | 10:05        | 1                | Grab/     | 1         | X       | X           | X       |      |            | Incident Number NAPP2508325453 |  |   |   |  |  |  |  |  |  |
| HA-5                     | S                    | 6.20.25   | 10:10        | 2                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-5                     | S                    | 6.20.25   | 10:15        | 3                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-5                     | S                    | 6.20.25   | 10:20        | 4                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-6                     | S                    | 6.20.25   | 10:25        | 0.5              | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-6                     | S                    | 6.20.25   | 10:30        | 1                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-6                     | S                    | 6.20.25   | 10:35        | 2                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-6                     | S                    | 6.20.25   | 10:40        | 3                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |
| HA-6                     | S                    | 6.20.25   | 10:45        | 4                | Grab/     | 1         | X       | X           | X       |      |            |                                |  |   |   |  |  |  |  |  |  |

Total 200.7 / 6010 200.8 / 6020: 8RCRA- 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed

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|                              |                          |              |                              |                          |           |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/20/15 3:42 |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |
|                              |                          |              |                              |                          |           |



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Chain of Custody

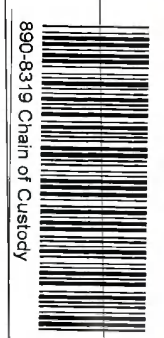
Work Order No: \_\_\_\_\_

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

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

|                          |   |   |   |
|--------------------------|---|---|---|
| Project Name:            | ROSS DRAW UNIT #044H  | Turn Around   | Pres. Code  |
| Project Number:          | 155   | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |   |
| Project Location:        | Eddy County, NM   | Due Date:   | <b>Routine TAT</b>  |
| Sampler's Name:          | Santiago Giron  | TAT starts the day received by the lab, if received by 4:30pm             |   |
| CC/WO #:                 | 21547716  | Temp Blank:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>SAMPLE RECEIPT</b>    | Temp Blank:   | Wet Lab:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID:   | TUNCOO  |
| Cooler Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor:  | -0.3  |
| Sample Custody Seals:    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading:  | 0.9   |
| Total Containers:        |   | Corrected Temperature:  | 0.2   |



| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth (feet) | Grab/Comp # of Cont | Parameters |             |         |      |            |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|--------------|---------------------|------------|-------------|---------|------|------------|--|--|--|--|--|--|--|--|--|--|
|                       |        |              |              |              |                     | TPH -NM    | Chloride-NM | BTEX-NM | Hold | 24 Hr Rush |  |  |  |  |  |  |  |  |  |  |
| HA-3                  | S      | 6.19.25      | 13:50        | 0.5          | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-3                  | S      | 6.19.25      | 13:55        | 1            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-3                  | S      | 6.19.25      | 14:00        | 2            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-3                  | S      | 6.19.25      | 14:05        | 3            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-3                  | S      | 6.19.25      | 14:10        | 4            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-4                  | S      | 6.19.25      | 14:15        | 0.5          | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-4                  | S      | 6.19.25      | 14:20        | 2            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-4                  | S      | 6.19.25      | 14:25        | 3            | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |
| HA-5                  | S      | 6.20.25      | 10:00        | 0.5          | Grab/1              | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time    | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|                              |                          | 6/20/15 8:28 |                              |                          | 4         |
|                              |                          |              |                              |                          | 6         |







**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

### Chain of Custody Record



**Client Information (Sub Contract Lab)**

Client Contact: Shipping/Receiving  
 Company: Eurofins Environment Testing South Centr  
 Address: 1211 W. Florida Ave,  
 City: Midland  
 State, Zip: TX, 79701  
 Phone: 432-704-5440(Tel)  
 Email: N/A  
 Project Name: ROSS DRAW UNIT # 044H  
 Site: N/A

Sampler: N/A  
 Lab PM: Teel, Brianna  
 E-Mail: Brianna.Teel@et.eurofins.com  
 Accreditations Required (See note): NELAP - Texas

Carrier Tracking No(s): N/A  
 State of Origin: New Mexico  
 COC No: 890-5288.1  
 Page: Page 1 of 3  
 Job #: 890-8319-1

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time    | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Over-sat, etc) | Preservation Code: (BT=Tissue, A=AG) | Analysis Requested         |                                   |                |                       | Special Instructions/Note: |                              |
|--|-------------|----------------|------------------------------|--------------------------------------|--------------------------------------|----------------------------|-----------------------------------|----------------|-----------------------|----------------------------|------------------------------|
|  |             |                |                              |                                      |                                      | Perform MS/MSD (Yes or No) | Field Filtered Sample (Yes or No) | Total BTEX_GCV | 8021B/5035FP_CalcBTEX |                            | 300_ORGM_28/DI_LEACHChloride |
| HA - 3 (890-8319-1)                        | 6/19/25     | 13:50 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 3 (890-8319-2)                        | 6/19/25     | 13:55 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 3 (890-8319-3)                        | 6/19/25     | 14:00 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 3 (890-8319-4)                        | 6/19/25     | 14:05 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 3 (890-8319-5)                        | 6/19/25     | 14:10 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 4 (890-8319-6)                        | 6/19/25     | 14:15 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 4 (890-8319-7)                        | 6/19/25     | 14:20 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 4 (890-8319-8)                        | 6/19/25     | 14:25 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |
| HA - 5 (890-8319-9)                        | 6/20/25     | 10:00 Mountain | G                            | Solid                                |                                      | X                          | X                                 | X              | X                     |                            |                              |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *alsh* Date: 6/19/25  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: *Teddy Vasquez* Date/Time: 6/21/25 08:00  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_  
 Cooler Temperature(s) and Other Remarks: *IP - 21.1°C (50.1°F)*

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**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

### Chain of Custody Record



Environment Testing

|   |                           |  |  |   |                            |                            |
|---|---------------------------|--|--|---|----------------------------|----------------------------|
| <b>Client Information (Sub Contract Lab)</b>      |                           | Sampler: N/A   | Lab PM: Teel, Brianna                    | Carrier Tracking No(s): N/A   | COC No: 890-5288.2         |                            |
| Client Contact: Shipping/Receiving                |                           | Phone: N/A   | E-Mail: Brianna.Teel@eurofins.com        | State of Origin: New Mexico   | Page: Page 2 of 3          |                            |
| Company: Eurofins Environment Testing South Centr |                           | Accreditations Required (See note): NELAP - Texas              |  | Job #: 890-8319-1   | Preservation Codes:        |                            |
| Address: 1211 W. Florida Ave.                     |                           | Due Date Requested: 6/26/2025                                  |  | Analysis Requested:   |                            |                            |
| City: Midland                                     | TAT Requested (days): N/A | Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> |  |   |                            | Total Number of Containers |
| State, Zip: TX, 79701                             | PO #: N/A                 | 8021B/5035FP_CalcIBTEX   |  |   |                            |                            |
| Phone: 432-704-5440(Tel)                          | WO #: N/A                 | 300_ORGFM_28D/DI_LEACHCHLORIDE                                 |  |   |                            |                            |
| Email: N/A  | Project #: 88001228       | 8015MOD_Calc   |  |   |                            |                            |
| SSOW#: N/A  | Site: N/A                 | 8015MOD_NM/8015NM_S_Prep8015 NM                                |  |   |                            |                            |
| Sample Date                                       | Sample Time               | Sample Type (C=Comp, G=grab)                                   | Matrix (W=Water, S=Solid, O=Soil, A=Air) | Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> | Special Instructions/Note: |                            |
| 6/20/25   | 10:05 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:10 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:15 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:20 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:25 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:30 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:35 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:40 Mountain            | G  | Solid                                    | X   |                            |                            |
| 6/20/25   | 10:45 Mountain            | G  | Solid                                    | X   |                            |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_

Relinquished by: *alub* Date/Time: 6/18/2025 Company: \_\_\_\_\_

Relinquished by: *Ledy Randall* Date/Time: 6/24/25 08:20 Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seal Intact:  Yes  No  Custody Seal No.: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:



**Eurofins Carlsbad**  
 1089 N Canal St.  
 Carlsbad, NM 88220  
 Phone: 575-988-3199 Fax: 575-988-3199

**Chain of Custody Record**



**Client Information (Sub Contract Lab)**  
 Shipping/Receiving  
 Company: Eurofins Environment Testing South Centr  
 Address: 1211 W. Florida Ave.  
 City: Midland  
 State, Zip: TX, 79701  
 Phone: 432-704-5440(Tel)  
 Email: N/A  
 Project Name: ROSS DRAW UNIT # 044H  
 Site: N/A

**Client Contact**  
 Shipping/Receiving  
 Lab PM: Teel, Brianna  
 E-Mail: Brianna.Teel@et.eurofins.com  
 State of Origin: New Mexico

**Carrier Tracking No(s):** N/A  
**COC No.:** 890-5288.3  
**Page:** Page 3 of 3  
**Job #:** 890-8319-1  
**Preservation Codes:**

**Due Date Requested:** 6/26/2025  
**TAT Requested (days):** N/A  
**PO #:** N/A  
**WO #:** N/A  
**Project #:** 88001228  
**SSOW#:** N/A

**Accreditations Required (See note):**  
 NELAP - Texas

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time    | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=soil, etc.) | Preservation Code: (BT=Ice, A=Air) | Perform MS/MSD (Yes or No) |                              | Field Filtered Sample (Yes or No) |                                 | Analysis Requested |     | Total Number of Containers | Special Instructions/Note: |
|--|-------------|----------------|------------------------------|---|------------------------------------|----------------------------|------------------------------|-----------------------------------|---------------------------------|--------------------|-----|----------------------------|----------------------------|
|  |             |                |                              |   |                                    | 8021B/5035FP_CalcBTEX      | 300_ORGM_28/D/L_EACHCHLORIDE | 8015MOD_Calc                      | 8015MOD_NM/8015NM_S_Prep8015 NM | Other:             | N/A |                            |                            |
| HA - 7 (890-8319-19)                       | 6/20/25     | 10:50 Mountain | G                            | Solid                                   |                                    | X                          | X                            | X                                 | X                               |                    |     | 1                          |                            |
| HA - 7 (890-8319-20)                       | 6/20/25     | 10:55 Mountain | G                            | Solid                                   |                                    | X                          | X                            | X                                 | X                               |                    |     | 1                          |                            |
| HA - 7 (890-8319-21)                       | 6/20/25     | 11:00 Mountain | G                            | Solid                                   |                                    | X                          | X                            | X                                 | X                               |                    |     | 1                          |                            |
| HA - 7 (890-8319-22)                       | 6/20/25     | 11:05 Mountain | G                            | Solid                                   |                                    | X                          | X                            | X                                 | X                               |                    |     | 1                          |                            |
| HA - 7 (890-8319-23)                       | 6/20/25     | 11:10 Mountain | G                            | Solid                                   |                                    | X                          | X                            | X                                 | X                               |                    |     | 1                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *alsh* Date: *6/14 6/20*  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_  
 Received by: *SA* Date/Time: \_\_\_\_\_  
 Received by: *Teddy Powell* Date/Time: *6/21/25 08:00*  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: *Fl-8*  
 Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8319-1  
SDG Number: Eddy County, NM

**Login Number: 8319**  
**List Number: 1**  
**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8319-1  
SDG Number: Eddy County, NM

**Login Number: 8319**  
**List Number: 2**  
**Creator: Rios, Minerva**

**List Source: Eurofins Midland**  
**List Creation: 06/23/25 11:03 AM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/25/2025 11:14:34 AM

## JOB DESCRIPTION

Ross Draw Unit #044H  
 Eddy County, NM

## JOB NUMBER

890-8320-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



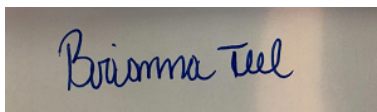
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
6/25/2025 11:14:34 AM

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

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Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Laboratory Job ID: 890-8320-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8320-1

**Job ID: 890-8320-1**

**Eurofins Carlsbad**

### Job Narrative 890-8320-1

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

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

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

#### Receipt

The samples were received on 6/20/2025 3:22 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 0.2°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 8 (890-8320-1), HA - 8 (890-8320-2), HA - 8 (890-8320-3), HA - 9 (890-8320-4), HA - 9 (890-8320-5), HA - 9 (890-8320-6), HA - 10 (890-8320-7), HA - 10 (890-8320-8), HA - 10 (890-8320-9), HA - 11 (890-8320-10), HA - 11 (890-8320-11) and HA - 11 (890-8320-12).

#### GC VOA

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

#### Diesel Range Organics

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-112769 and analytical batch 880-112828 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 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (890-8320-A-7-C MS) and (890-8320-A-7-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: HA - 10 (890-8320-7), HA - 10 (890-8320-8), HA - 10 (890-8320-9), HA - 11 (890-8320-10) and HA - 11 (890-8320-12). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: HA - 11 (890-8320-11). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-112861 and analytical batch 880-112921 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Carlsbad

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-1**

Date Collected: 06/19/25 14:30

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 13:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 13:57 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 06/23/25 13:57 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/24/25 05:33 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U**       | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:33 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:33 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 125       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:33 | 1       |
| o-Terphenyl    | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:33 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 77.3   | F1        | 9.98 |     | mg/Kg |   |          | 06/25/25 01:40 | 1       |

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-2**

Date Collected: 06/19/25 14:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 14:18 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-2**

Date Collected: 06/19/25 14:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 97        |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 14:18 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 14:18 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/24/25 05:47 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U **      | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:47 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 05:47 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:47 | 1       |
| o-Terphenyl    | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 05:47 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 104    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 01:57 | 1       |

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-3**

Date Collected: 06/19/25 14:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 14:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 14:38 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 06/23/25 14:38 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/24/25 06:02 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-3**

Date Collected: 06/19/25 14:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U **      | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 125       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 06:02 | 1       |
| o-Terphenyl                          | 129       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 06:02 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 188    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 02:02 | 1       |

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-4**

Date Collected: 06/19/25 14:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 |     |       |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 |     |       |   | 06/23/25 09:47 | 06/23/25 14:59 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 14:59 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/24/25 06:17 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1     | U **      | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1     | U         | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1     | U         | 50.1     |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 127       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 06:17 | 1       |
| o-Terphenyl                          | 130       |           | 70 - 130 |     |       |   | 06/23/25 10:15 | 06/24/25 06:17 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-4**

Date Collected: 06/19/25 14:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 99.2   |           | 10.1 |     | mg/Kg |   |          | 06/25/25 02:08 | 1       |

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-5**

Date Collected: 06/19/25 14:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| Toluene                     | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| Ethylbenzene                | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| m-Xylene & p-Xylene         | <0.00396         | U                | 0.00396       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| o-Xylene                    | <0.00198         | U                | 0.00198       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| Xylenes, Total              | <0.00396         | U                | 0.00396       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 106              |                  | 70 - 130      |     |       |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |
| 1,4-Difluorobenzene (Surr)  | 99               |                  | 70 - 130      |     |       |   | 06/23/25 09:47  | 06/23/25 15:19  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 15:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 06/24/25 06:31 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9            | U **             | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 06:31  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 06:31  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.9            | U                | 49.9          |     | mg/Kg |   | 06/23/25 10:15  | 06/24/25 06:31  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 124              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 06:31  | 1              |
| o-Terphenyl                          | 127              |                  | 70 - 130      |     |       |   | 06/23/25 10:15  | 06/24/25 06:31  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 120    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 02:14 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-6**

Date Collected: 06/19/25 14:55

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 15:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 15:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 15:40 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 15:40 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 06/24/25 06:46 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U*        | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 06:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 126       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 06:46 | 1       |
| o-Terphenyl    | 129       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 06:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 141    |           | 10.0 |     | mg/Kg |   |          | 06/25/25 02:31 | 1       |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-7**

Date Collected: 06/20/25 11:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:02 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 17:02 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-7**

Date Collected: 06/20/25 11:15

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 101       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 17:02 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 17:02 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/23/25 17:46 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 17:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 17:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 17:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 17:46 | 1       |
| o-Terphenyl    | 146       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 17:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 79.7   |           | 9.96 |     | mg/Kg |   |          | 06/25/25 02:36 | 1       |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-8**

Date Collected: 06/20/25 11:20

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 17:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 17:23 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 17:23 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 18:32 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-8**

Date Collected: 06/20/25 11:20

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7     | U         | 49.7     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.7     | U         | 49.7     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.7     | U         | 49.7     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 132       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:21 | 06/23/25 18:32 | 1       |
| o-Terphenyl                          | 144       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:21 | 06/23/25 18:32 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 131    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 02:42 | 1       |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-9**

Date Collected: 06/20/25 11:25

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 |     |       |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 |     |       |   | 06/23/25 09:47 | 06/23/25 17:43 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 17:43 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 18:47 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:47 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:47 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 18:47 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 131       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:21 | 06/23/25 18:47 | 1       |
| o-Terphenyl                          | 146       | S1+       | 70 - 130 |     |       |   | 06/23/25 10:21 | 06/23/25 18:47 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-9**

Date Collected: 06/20/25 11:25

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 89.9   |           | 9.98 |     | mg/Kg |   |          | 06/25/25 02:47 | 1       |

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-10**

Date Collected: 06/20/25 11:30

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| Toluene                     | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| Ethylbenzene                | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| m-Xylene & p-Xylene         | <0.00399         | U                | 0.00399       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| o-Xylene                    | <0.00200         | U                | 0.00200       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| Xylenes, Total              | <0.00399         | U                | 0.00399       |     | mg/Kg |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 103              |                  | 70 - 130      |     |       |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |
| 1,4-Difluorobenzene (Surr)  | 98               |                  | 70 - 130      |     |       |   | 06/23/25 09:47  | 06/23/25 18:04  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 06/23/25 18:04 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.7  | U         | 49.7 |     | mg/Kg |   |          | 06/23/25 19:02 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7            | U                | 49.7          |     | mg/Kg |   | 06/23/25 10:21  | 06/23/25 19:02  | 1              |
| Diesel Range Organics (Over C10-C28) | <49.7            | U                | 49.7          |     | mg/Kg |   | 06/23/25 10:21  | 06/23/25 19:02  | 1              |
| Oil Range Organics (Over C28-C36)    | <49.7            | U                | 49.7          |     | mg/Kg |   | 06/23/25 10:21  | 06/23/25 19:02  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 132              | S1+              | 70 - 130      |     |       |   | 06/23/25 10:21  | 06/23/25 19:02  | 1              |
| o-Terphenyl                          | 147              | S1+              | 70 - 130      |     |       |   | 06/23/25 10:21  | 06/23/25 19:02  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 401    |           | 9.90 |     | mg/Kg |   |          | 06/25/25 02:53 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-11**

Date Collected: 06/20/25 11:35

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:24 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 18:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 18:24 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 18:24 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 19:17 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 130       |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:17 | 1       |
| o-Terphenyl    | 144       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:17 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 428    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 02:59 | 1       |

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-12**

Date Collected: 06/20/25 11:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 18:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 18:44 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-12**

Date Collected: 06/20/25 11:40

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 100       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 18:44 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 06/23/25 18:44 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 06/23/25 19:31 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:31 | 1       |
| o-Terphenyl    | 145       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:31 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 156    |           | 9.98 |     | mg/Kg |   |          | 06/25/25 03:16 | 1       |

## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8320-1          | HA - 8                 | 104  | 98                |
| 890-8320-2          | HA - 8                 | 106  | 97                |
| 890-8320-3          | HA - 8                 | 107  | 101               |
| 890-8320-4          | HA - 9                 | 105  | 100               |
| 890-8320-5          | HA - 9                 | 106  | 99                |
| 890-8320-6          | HA - 9                 | 102  | 99                |
| 890-8320-7          | HA - 10                | 107  | 101               |
| 890-8320-8          | HA - 10                | 104  | 103               |
| 890-8320-9          | HA - 10                | 102  | 101               |
| 890-8320-10         | HA - 11                | 103  | 98                |
| 890-8320-11         | HA - 11                | 106  | 102               |
| 890-8320-12         | HA - 11                | 110  | 100               |
| LCS 880-112746/1-A  | Lab Control Sample     | 95   | 93                |
| LCSD 880-112746/2-A | Lab Control Sample Dup | 91   | 89                |
| MB 880-112746/5-A   | Method Blank           | 97   | 94                |

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8320-1          | HA - 8                 | 125  | 129               |
| 890-8320-2          | HA - 8                 | 126  | 129               |
| 890-8320-3          | HA - 8                 | 125  | 129               |
| 890-8320-4          | HA - 9                 | 127  | 130               |
| 890-8320-5          | HA - 9                 | 124  | 127               |
| 890-8320-6          | HA - 9                 | 126  | 129               |
| 890-8320-7          | HA - 10                | 131 S1+  | 146 S1+           |
| 890-8320-7 MS       | HA - 10                | 139 S1+  | 145 S1+           |
| 890-8320-7 MSD      | HA - 10                | 139 S1+  | 144 S1+           |
| 890-8320-8          | HA - 10                | 132 S1+  | 144 S1+           |
| 890-8320-9          | HA - 10                | 131 S1+  | 146 S1+           |
| 890-8320-10         | HA - 11                | 132 S1+  | 147 S1+           |
| 890-8320-11         | HA - 11                | 130  | 144 S1+           |
| 890-8320-12         | HA - 11                | 133 S1+  | 145 S1+           |
| LCS 880-112769/2-A  | Lab Control Sample     | 80   | 75                |
| LCS 880-112770/2-A  | Lab Control Sample     | 79   | 84                |
| LCSD 880-112769/3-A | Lab Control Sample Dup | 82   | 78                |
| LCSD 880-112770/3-A | Lab Control Sample Dup | 92   | 94                |
| MB 880-112769/1-A   | Method Blank           | 110  | 114               |
| MB 880-112770/1-A   | Method Blank           | 73   | 81                |

**Surrogate Legend**  
1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112746/5-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

Lab Sample ID: LCS 880-112746/1-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1071     |               | mg/Kg |   | 107  | 70 - 130    |
| Toluene             | 0.100       | 0.1020     |               | mg/Kg |   | 102  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1050     |               | mg/Kg |   | 105  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2145     |               | mg/Kg |   | 107  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1075     |               | mg/Kg |   | 108  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: LCSD 880-112746/2-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35        |
| Toluene             | 0.100       | 0.1008      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.1042      |                | mg/Kg |   | 104  | 70 - 130    | 1   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2109      |                | mg/Kg |   | 105  | 70 - 130    | 2   | 35        |
| o-Xylene            | 0.100       | 0.1060      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 91             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112769/1-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 00:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 00:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:15 | 06/24/25 00:31 | 1       |

| Surrogate      | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 110       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 00:31 | 1       |
| o-Terphenyl    | 114       |           | 70 - 130 | 06/23/25 10:15 | 06/24/25 00:31 | 1       |

Lab Sample ID: LCS 880-112769/2-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
|                                      |             |            |               |       |   |      |             |
| Diesel Range Organics (Over C10-C28) | 1000        | 1109       |               | mg/Kg |   | 111  | 70 - 130    |

| Surrogate      | LCS       | LCS       | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 80        |           | 70 - 130 |
| o-Terphenyl    | 75        |           | 70 - 130 |

Lab Sample ID: LCSD 880-112769/3-A  
 Matrix: Solid  
 Analysis Batch: 112828

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112769

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD |       |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
|                                      |             |             |                |       |   |      |             | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1311        | *+             | mg/Kg |   | 131  | 70 - 130    | 2   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1161        |                | mg/Kg |   | 116  | 70 - 130    | 5   | 20    |

| Surrogate      | LCSD      | LCSD      | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 82        |           | 70 - 130 |
| o-Terphenyl    | 78        |           | 70 - 130 |

Lab Sample ID: MB 880-112770/1-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

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

**Lab Sample ID: MB 880-112770/1-A**  
**Matrix: Solid**  
**Analysis Batch: 112830**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 112770**

| Surrogate      | MB MB     |           | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 73        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

**Lab Sample ID: LCS 880-112770/2-A**  
**Matrix: Solid**  
**Analysis Batch: 112830**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 112770**

| Analyte                              | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|---------|-----------|-------|---|------|-------------|
|                                      |             | Result  | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1040    |           | mg/Kg |   | 104  | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1212    |           | mg/Kg |   | 121  | 70 - 130    |

| Surrogate      | LCS LCS   |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 79        |           | 70 - 130 |
| o-Terphenyl    | 84        |           | 70 - 130 |

**Lab Sample ID: LCSD 880-112770/3-A**  
**Matrix: Solid**  
**Analysis Batch: 112830**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 112770**

| Analyte                              | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec Limits | RPD |       |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|-------------|-----|-------|
|                                      |             | Result    | Qualifier |       |   |      |             | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1025      |           | mg/Kg |   | 103  | 70 - 130    | 1   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1092      |           | mg/Kg |   | 109  | 70 - 130    | 10  | 20    |

| Surrogate      | LCSD LCSD |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

**Lab Sample ID: 890-8320-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 112830**

**Client Sample ID: HA - 10**  
**Prep Type: Total/NA**  
**Prep Batch: 112770**

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS MS  |           | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|---------------|------------------|-------------|--------|-----------|-------|---|------|-------------|
|                                      |               |                  |             | Result | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | <50.1         | U                | 1010        | 905.6  |           | mg/Kg |   | 90   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | <50.1         | U                | 1010        | 974.3  |           | mg/Kg |   | 97   | 70 - 130    |

| Surrogate      | MS MS     |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 139       | S1+       | 70 - 130 |
| o-Terphenyl    | 145       | S1+       | 70 - 130 |

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8320-7 MSD  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: HA - 10  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | Sample Result    | Sample Qualifier     | Spike Added | MSD Result    | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|-------------|---------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1            | U                    | 1010        | 912.7         |               | mg/Kg |   | 91   | 70 - 130    | 1   | 20        |
| Diesel Range Organics (Over C10-C28) | <50.1            | U                    | 1010        | 1026          |               | mg/Kg |   | 102  | 70 - 130    | 5   | 20        |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>MSD Qualifier</b> | <b>MSD</b>  | <b>Limits</b> |               |       |   |      |             |     |           |
| 1-Chlorooctane                       | 139              | S1+                  |             | 70 - 130      |               |       |   |      |             |     |           |
| o-Terphenyl                          | 144              | S1+                  |             | 70 - 130      |               |       |   |      |             |     |           |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112861/1-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0     | U            | 10.0 |     | mg/Kg |   |          | 06/25/25 01:23 | 1       |

Lab Sample ID: LCS 880-112861/2-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 254.1      |               | mg/Kg |   | 102  | 90 - 110    |

Lab Sample ID: LCSD 880-112861/3-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 253.8       |                | mg/Kg |   | 102  | 90 - 110    | 0   | 20        |

Lab Sample ID: 890-8320-1 MS  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: HA - 8  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 77.3          | F1               | 250         | 363.7     | F1           | mg/Kg |   | 115  | 90 - 110    |

Lab Sample ID: 890-8320-1 MSD  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: HA - 8  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 77.3          | F1               | 250         | 363.7      | F1            | mg/Kg |   | 115  | 90 - 110    | 0   | 20        |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8320-11 MS  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: HA - 11  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 428           |                  | 252         | 662.8     |              | mg/Kg |   | 93   | 90 - 110    |

Lab Sample ID: 890-8320-11 MSD  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: HA - 11  
 Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 428           |                  | 252         | 664.9      |               | mg/Kg |   | 94   | 90 - 110    | 0   | 20        |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

#### GC VOA

##### Analysis Batch: 112726

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8320-1          | HA - 8                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-2          | HA - 8                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-3          | HA - 8                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-4          | HA - 9                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-5          | HA - 9                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-6          | HA - 9                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-7          | HA - 10                | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-8          | HA - 10                | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-9          | HA - 10                | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-10         | HA - 11                | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-11         | HA - 11                | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8320-12         | HA - 11                | Total/NA  | Solid  | 8021B  | 112746     |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112746     |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112746     |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112746     |

##### Prep Batch: 112746

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8320-1          | HA - 8                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-2          | HA - 8                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-3          | HA - 8                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-4          | HA - 9                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-5          | HA - 9                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-6          | HA - 9                 | Total/NA  | Solid  | 5035   |            |
| 890-8320-7          | HA - 10                | Total/NA  | Solid  | 5035   |            |
| 890-8320-8          | HA - 10                | Total/NA  | Solid  | 5035   |            |
| 890-8320-9          | HA - 10                | Total/NA  | Solid  | 5035   |            |
| 890-8320-10         | HA - 11                | Total/NA  | Solid  | 5035   |            |
| 890-8320-11         | HA - 11                | Total/NA  | Solid  | 5035   |            |
| 890-8320-12         | HA - 11                | Total/NA  | Solid  | 5035   |            |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 112962

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8320-1    | HA - 8           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-2    | HA - 8           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-3    | HA - 8           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-4    | HA - 9           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-5    | HA - 9           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-6    | HA - 9           | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-7    | HA - 10          | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-8    | HA - 10          | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-9    | HA - 10          | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-10   | HA - 11          | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-11   | HA - 11          | Total/NA  | Solid  | Total BTEX |            |
| 890-8320-12   | HA - 11          | Total/NA  | Solid  | Total BTEX |            |

### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

#### GC Semi VOA

##### Prep Batch: 112769

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8320-1          | HA - 8                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-2          | HA - 8                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-3          | HA - 8                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-4          | HA - 9                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-5          | HA - 9                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-6          | HA - 9                 | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112769/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112769/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112769/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

##### Prep Batch: 112770

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8320-7          | HA - 10                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-8          | HA - 10                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-9          | HA - 10                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-10         | HA - 11                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-11         | HA - 11                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-12         | HA - 11                | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-7 MS       | HA - 10                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8320-7 MSD      | HA - 10                | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 112828

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8320-1          | HA - 8                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8320-2          | HA - 8                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8320-3          | HA - 8                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8320-4          | HA - 9                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8320-5          | HA - 9                 | Total/NA  | Solid  | 8015B NM | 112769     |
| 890-8320-6          | HA - 9                 | Total/NA  | Solid  | 8015B NM | 112769     |
| MB 880-112769/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 112769     |
| LCS 880-112769/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112769     |
| LCSD 880-112769/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112769     |

##### Analysis Batch: 112830

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8320-7          | HA - 10                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-8          | HA - 10                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-9          | HA - 10                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-10         | HA - 11                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-11         | HA - 11                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-12         | HA - 11                | Total/NA  | Solid  | 8015B NM | 112770     |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 112770     |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112770     |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-7 MS       | HA - 10                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8320-7 MSD      | HA - 10                | Total/NA  | Solid  | 8015B NM | 112770     |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

#### GC Semi VOA

##### Analysis Batch: 112908

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8320-1    | HA - 8           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-2    | HA - 8           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-3    | HA - 8           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-4    | HA - 9           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-5    | HA - 9           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-6    | HA - 9           | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-7    | HA - 10          | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-8    | HA - 10          | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-9    | HA - 10          | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-10   | HA - 11          | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-11   | HA - 11          | Total/NA  | Solid  | 8015 NM |            |
| 890-8320-12   | HA - 11          | Total/NA  | Solid  | 8015 NM |            |

#### HPLC/IC

##### Leach Batch: 112861

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-8320-1         | HA - 8                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-2         | HA - 8                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-3         | HA - 8                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-4         | HA - 9                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-5         | HA - 9                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-6         | HA - 9                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-7         | HA - 10                | Soluble   | Solid  | DI Leach |            |
| 890-8320-8         | HA - 10                | Soluble   | Solid  | DI Leach |            |
| 890-8320-9         | HA - 10                | Soluble   | Solid  | DI Leach |            |
| 890-8320-10        | HA - 11                | Soluble   | Solid  | DI Leach |            |
| 890-8320-11        | HA - 11                | Soluble   | Solid  | DI Leach |            |
| 890-8320-12        | HA - 11                | Soluble   | Solid  | DI Leach |            |
| MB 880-112861/1-A  | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112861/2-A | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCS 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-8320-1 MS      | HA - 8                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-1 MSD     | HA - 8                 | Soluble   | Solid  | DI Leach |            |
| 890-8320-11 MS     | HA - 11                | Soluble   | Solid  | DI Leach |            |
| 890-8320-11 MSD    | HA - 11                | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 112921

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-8320-1    | HA - 8           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-2    | HA - 8           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-3    | HA - 8           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-4    | HA - 9           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-5    | HA - 9           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-6    | HA - 9           | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-7    | HA - 10          | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-8    | HA - 10          | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-9    | HA - 10          | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-10   | HA - 11          | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-11   | HA - 11          | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-12   | HA - 11          | Soluble   | Solid  | 300.0  | 112861     |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
SDG: Eddy County, NM

#### HPLC/IC (Continued)

#### Analysis Batch: 112921 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| MB 880-112861/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112861     |
| LCS 880-112861/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112861     |
| LCSD 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-1 MS       | HA - 8                 | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-1 MSD      | HA - 8                 | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-11 MS      | HA - 11                | Soluble   | Solid  | 300.0  | 112861     |
| 890-8320-11 MSD     | HA - 11                | Soluble   | Solid  | 300.0  | 112861     |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-1**

Date Collected: 06/19/25 14:30

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 13:57       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 13:57       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 05:33       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 05:33       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 01:40       | CS      | EET MID |

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-2**

Date Collected: 06/19/25 14:35

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 14:18       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 14:18       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 05:47       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 05:47       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 01:57       | CS      | EET MID |

**Client Sample ID: HA - 8**

**Lab Sample ID: 890-8320-3**

Date Collected: 06/19/25 14:40

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 14:38       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 14:38       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 06:02       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 06:02       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:02       | CS      | EET MID |

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-4**

Date Collected: 06/19/25 14:45

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 14:59       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 14:59       | SA      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-4**

Date Collected: 06/19/25 14:45

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 06:17       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 06:17       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:08       | CS      | EET MID |

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-5**

Date Collected: 06/19/25 14:50

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 15:19       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 15:19       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 06:31       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 06:31       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:14       | CS      | EET MID |

**Client Sample ID: HA - 9**

**Lab Sample ID: 890-8320-6**

Date Collected: 06/19/25 14:55

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 15:40       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 15:40       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/24/25 06:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 112769       | 06/23/25 10:15       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112828       | 06/24/25 06:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:31       | CS      | EET MID |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-7**

Date Collected: 06/20/25 11:15

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 17:02       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 17:02       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 17:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.99 g         | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 17:46       | TKC     | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-7**

Date Collected: 06/20/25 11:15

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:36       | CS      | EET MID |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-8**

Date Collected: 06/20/25 11:20

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 17:23       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 17:23       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 18:32       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.07 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 18:32       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:42       | CS      | EET MID |

**Client Sample ID: HA - 10**

**Lab Sample ID: 890-8320-9**

Date Collected: 06/20/25 11:25

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 17:43       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 17:43       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 18:47       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 18:47       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:47       | CS      | EET MID |

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-10**

Date Collected: 06/20/25 11:30

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 18:04       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 18:04       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 19:02       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.06 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 19:02       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:53       | CS      | EET MID |

Eurofins Carlsbad

### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-11**

**Date Collected: 06/20/25 11:35**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 18:24       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 18:24       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 19:17       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 19:17       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 02:59       | CS      | EET MID |

**Client Sample ID: HA - 11**

**Lab Sample ID: 890-8320-12**

**Date Collected: 06/20/25 11:40**

**Matrix: Solid**

**Date Received: 06/20/25 15:22**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 18:44       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112962       | 06/23/25 18:44       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112908       | 06/23/25 19:31       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 19:31       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 03:16       | CS      | 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: Ross Draw Unit #044H

Job ID: 890-8320-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-25        |

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

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

- 1
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- 3
- 4
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- 10
- 11
- 12
- 13
- 14

### Method Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8320-1  
 SDG: Eddy 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: Ross Draw Unit #044H

Job ID: 890-8320-1  
SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8320-1    | HA - 8           | Solid  | 06/19/25 14:30 | 06/20/25 15:22 | 0.5   |
| 890-8320-2    | HA - 8           | Solid  | 06/19/25 14:35 | 06/20/25 15:22 | 2     |
| 890-8320-3    | HA - 8           | Solid  | 06/19/25 14:40 | 06/20/25 15:22 | 4     |
| 890-8320-4    | HA - 9           | Solid  | 06/19/25 14:45 | 06/20/25 15:22 | 0.5   |
| 890-8320-5    | HA - 9           | Solid  | 06/19/25 14:50 | 06/20/25 15:22 | 2     |
| 890-8320-6    | HA - 9           | Solid  | 06/19/25 14:55 | 06/20/25 15:22 | 4     |
| 890-8320-7    | HA - 10          | Solid  | 06/20/25 11:15 | 06/20/25 15:22 | 0.5   |
| 890-8320-8    | HA - 10          | Solid  | 06/20/25 11:20 | 06/20/25 15:22 | 2     |
| 890-8320-9    | HA - 10          | Solid  | 06/20/25 11:25 | 06/20/25 15:22 | 4     |
| 890-8320-10   | HA - 11          | Solid  | 06/20/25 11:30 | 06/20/25 15:22 | 0.5   |
| 890-8320-11   | HA - 11          | Solid  | 06/20/25 11:35 | 06/20/25 15:22 | 2     |
| 890-8320-12   | HA - 11          | Solid  | 06/20/25 11:40 | 06/20/25 15:22 | 4     |

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Environment Testing  
Xenco

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

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com

Page 1 of 2

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

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



890-8320 Chain of Custody

|                         |   |   |  |            |   |
|-------------------------|---|---|--|------------|---|
| Project Name:           | ROSS DRAW UNIT #044H  | Turn Around   | <input checked="" type="checkbox"/> Routine<br><input type="checkbox"/> Rush | Pres. Code |   |
| Project Number:         | 155   |   |  |            |   |
| Project Location:       | Eddy County, NM   | Due Date:   | <b>Routine TAT</b>   |            |   |
| Sampler's Name:         | Santiago Giron  | TAT starts the day received by the lab, if received by 4:30pm |  |            |   |
| CCWO #:                 | 21547716  | Temp Blank:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No          | Wet Ice:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>SAMPLE RECEIPT</b>   |   | Thermometer ID:   |  |            |   |
| Samples Received Inact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor:  |  |            |   |
| Cooler-Custody Seals:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Temperature Reading:  |  |            |   |
| Sample Custody Seals:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Corrected Temperature:  |  |            |   |
| Totals Containers:      |   |   |  |            |   |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth (feet) | Grab/Comp # of Cont | Parameters |             |         |      |            |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|--------|--------------|--------------|--------------|---------------------|------------|-------------|---------|------|------------|--|--|--|--|--|--|--|--|--|--|--|
|                       |        |              |              |              |                     | TPH -NM    | Chloride-NM | BTEX-NM | Hold | 24 Hr Rush |  |  |  |  |  |  |  |  |  |  |  |
| HA-8                  | S      | 6.19.25      | 14:30        | 0.5          | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-8                  | S      | 6.19.25      | 14:35        | 2            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-8                  | S      | 6.19.25      | 14:40        | 4            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-9                  | S      | 6.19.25      | 14:45        | 0.5          | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-9                  | S      | 6.19.25      | 14:50        | 2            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-9                  | S      | 6.19.25      | 14:55        | 4            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-10                 | S      | 6.20.25      | 11:15        | 0.5          | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-10                 | S      | 6.20.25      | 11:20        | 2            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |
| HA-10                 | S      | 6.20.25      | 11:25        | 4            | Grab/ 1             | X          | X           | X       |      |            |  |  |  |  |  |  |  |  |  |  |  |

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

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

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_



**Eurofins Carlsbad**  
1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

### Chain of Custody Record



Environment Testing

|  |   |                                   |                             |                     |
|--|---|-----------------------------------|-----------------------------|---------------------|
| <b>Client Information (Sub Contract Lab)</b>     | Sampler: N/A                                      | Lab PM: Teel, Brianna             | Carrier Tracking No(s): N/A | COC No: 890-8320-1  |
| Client Contact: Shipping/Receiving               | Phone: N/A  | E-Mail: Brianna.Teel@eurofins.com | State of Origin: New Mexico | Page: Page 1 of 2   |
| Company: Eurofins Environment Testing South Cent | Accreditations Required (See note): NELAP - Texas |                                   | Job #: 890-8320-1           | Preservation Codes: |
| Address: 1211 W. Florida Ave,                    | Due Date Requested: 6/26/2025                     |                                   |                             |                     |
| City: Midland                                    | TAT Requested (days): N/A                         |                                   |                             |                     |
| State/Zip: TX, 79701                             | PO #: N/A   |                                   |                             |                     |
| Phone: 432-704-5440(Tel)                         | WO #: N/A   |                                   |                             |                     |
| Email: N/A                                       | Project #: 88001228                               |                                   |                             |                     |
| Project Name: ROSS DRAW UNIT # 044H              | SSOW#: N/A  |                                   |                             |                     |
| Site: N/A  |   |                                   |                             |                     |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time    | Sample Type (C=Comp, G=grab) | Matrix (W-water, S-solid, O-wastewater, BT-Tissue, A-air) | Preservation Code: |        | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total BTEX_GCV | 80218/5035P_CalBTEX | 300_ORGFM_28D/DI_LEACHchloride | 8015MOD_Calc | 8015MOD_NM/8015NM_S_Prep8015 NM | Analysis Requested | Total Number of containers | Special Instructions/Note: |
|--|-------------|----------------|------------------------------|---|--------------------|--------|-----------------------------------|----------------------------|----------------|---------------------|--------------------------------|--------------|---------------------------------|--------------------|----------------------------|----------------------------|
|  |             |                |                              |   | 8015MOD            | 8015NM |                                   |                            |                |                     |                                |              |                                 |                    |                            |                            |
| HA - 8 (890-8320-1)                        | 6/19/25     | 14:30 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 8 (890-8320-2)                        | 6/19/25     | 14:35 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 8 (890-8320-3)                        | 6/19/25     | 14:40 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 9 (890-8320-4)                        | 6/19/25     | 14:45 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 9 (890-8320-5)                        | 6/19/25     | 14:50 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 9 (890-8320-6)                        | 6/19/25     | 14:55 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 10 (890-8320-7)                       | 6/20/25     | 11:15 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 10 (890-8320-8)                       | 6/20/25     | 11:20 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |
| HA - 10 (890-8320-9)                       | 6/20/25     | 11:25 Mountain | G                            | Solid   |                    |        | X                                 | X                          | X              | X                   | X                              | X            | X                               |                    | 1                          |                            |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC.

**Possible Hazard Identification**  
 Unconfirmed  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_  
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *abw* Date: 6/20/25  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: *Cheryl Handwerker* Date/Time: 6/21/25 0800  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Cooler Temperature(s) and Other Remarks: *IP-8 (Cool)*

|   |
|---|
| Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Custody Seal No.:   |



Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220  
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



|  |         |  |   |  |   |
|--|---------|--|---|--|---|
| <b>Client Information (Sub Contract Lab)</b><br>Shipping/Receiving<br>Company: Eurofins Environment Testing South Centr<br>Address: 1211 W. Florida Ave,<br>City: Midland<br>State, Zip: TX, 79701<br>Phone: 432-704-5440(Tel)<br>Email: N/A<br>Project #: ROSS DRAW UNIT # 044H<br>Site: N/A  |         | Sampler: N/A<br>Phone: N/A<br>Lab PM: Teel, Brianna<br>E-Mail: Brianna.Teel@et.eurofins.com<br>Accreditations Required (See note): NELAP - Texas |   | Carrier Tracking No(s): N/A<br>State of Origin: New Mexico<br>Job #: 890-8320-1<br>Preservation Codes: |   |
| <b>Due Date Requested:</b> 6/26/2025<br><b>TAT Requested (days):</b> N/A   |         | <b>Analysis Requested</b>  |   |  |   |
| PO #: N/A<br>WO #: N/A<br>Project #: 88001228<br>SSOW#: N/A  |         | Total BTEX_GCV<br>8021B/5035FP_CalcBTEX<br>300_ORGM_28/D/L_EACHCHLORIDE<br>8015MOD_Calc<br>8015MOD_NM/8015NM_S_Prep8015 NM                       |   | Perform MS/MSD (Yes or No)<br><input checked="" type="checkbox"/>                                      |   |
| <b>Sample Identification - Client ID (Lab ID)</b>  |         | Field Filtered Sample (Yes or No)<br><input checked="" type="checkbox"/>   |   | Total Number of Containers<br><input checked="" type="checkbox"/>                                      |   |
| HA - 11 (890-8320-10)  | 6/20/25 | 11:30 Mountain   | G | Solid  | 1 |
| HA - 11 (890-8320-11)  | 6/20/25 | 11:35 Mountain   | G | Solid  | 1 |
| HA - 11 (890-8320-12)  | 6/20/25 | 11:40 Mountain   | G | Solid  | 1 |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC. |         |  |   |  |   |
| <b>Possible Hazard Identification</b><br>Unconfirmed<br>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2<br>Empty Kit Relinquished by: _____ Date: _____<br>Relinquished by: <i>alsh</i> Date/Time: 6/18/25 Company: _____<br>Relinquished by: _____ Date/Time: _____ Company: _____<br>Relinquished by: _____ Date/Time: _____ Company: _____<br>Custody Seals Intact: _____ Custody Seal No.: _____<br>Δ Yes Δ No  |         |  |   |  |   |
| <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months<br>Special Instructions/QC Requirements:   |         |  |   |  |   |
| Method of Shipment: _____<br>Date/Time: 6/21/25 0800<br>Received by: <i>Teddy Randall Lee</i><br>Date/Time: _____ Company: _____<br>Received by: _____ Date/Time: _____ Company: _____<br>Received by: _____ Date/Time: _____ Company: _____<br>Cooler Temperature(s) °C and Other Remarks: IR-8 4/2/25  |         |  |   |  |   |

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Ver: 10/10/2024

### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8320-1  
SDG Number: Eddy County, NM

**Login Number: 8320**

**List Number: 1**

**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8320-1  
SDG Number: Eddy County, NM

**Login Number: 8320**  
**List Number: 2**  
**Creator: Rios, Minerva**

**List Source: Eurofins Midland**  
**List Creation: 06/23/25 11:18 AM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/25/2025 11:14:42 AM

## JOB DESCRIPTION

Ross Draw Unit # 044H  
 Eddy County, NM

## JOB NUMBER

890-8322-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



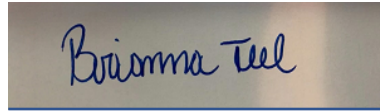
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
6/25/2025 11:14:42 AM

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

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Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit # 044H

Laboratory Job ID: 890-8322-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

### Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit # 044H

Job ID: 890-8322-1

**Job ID: 890-8322-1**

**Eurofins Carlsbad**

#### Job Narrative 890-8322-1

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

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

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

#### Receipt

The samples were received on 6/20/2025 3:22 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 0.2°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 12 (890-8322-1), HA - 12 (890-8322-2) and HA - 12 (890-8322-3).

#### 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: Surrogate recovery for the following samples were outside control limits: HA - 12 (890-8322-2) and (890-8320-A-7-B). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: HA - 12 (890-8322-1) and HA - 12 (890-8322-3). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-1**

Date Collected: 06/20/25 11:45

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:30 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 18:30 | 1       |
| 1,4-Difluorobenzene (Surr)  | 80        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 18:30 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 18:30 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.2  | U         | 50.2 |     | mg/Kg |   |          | 06/23/25 20:30 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.2  | U         | 50.2 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:30 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.2  | U         | 50.2 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.2  | U         | 50.2 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:30 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 130       |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:30 | 1       |
| o-Terphenyl    | 145       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:30 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 138    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 03:50 | 1       |

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-2**

Date Collected: 06/20/25 11:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 18:50 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 18:50 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-2**

Date Collected: 06/20/25 11:50

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 90        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 18:50 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00403 | U         | 0.00403 |     | mg/Kg |   |          | 06/23/25 18:50 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 06/23/25 21:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:01 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:01 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:01 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 21:01 | 1       |
| o-Terphenyl    | 144       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 21:01 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2860   |           | 50.3 |     | mg/Kg |   |          | 06/25/25 03:55 | 5       |

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-3**

Date Collected: 06/20/25 11:55

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 19:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 19:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 | 06/23/25 09:42 | 06/23/25 19:11 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 19:11 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 21:16 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-3**

Date Collected: 06/20/25 11:55

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 21:16 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 130       |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 21:16 | 1       |
| o-Terphenyl    | 145       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 21:16 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 3200   |           | 49.9 |     | mg/Kg |   |          | 06/25/25 04:01 | 5       |

### Surrogate Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8322-1          | HA - 12                | 92   | 80                |
| 890-8322-2          | HA - 12                | 89   | 90                |
| 890-8322-3          | HA - 12                | 91   | 96                |
| LCS 880-112742/1-A  | Lab Control Sample     | 91   | 96                |
| LCSD 880-112742/2-A | Lab Control Sample Dup | 102  | 96                |
| MB 880-112742/5-A   | Method Blank           | 86   | 92                |

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

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8322-1          | HA - 12                | 130  | 145 S1+           |
| 890-8322-2          | HA - 12                | 131 S1+  | 144 S1+           |
| 890-8322-3          | HA - 12                | 130  | 145 S1+           |
| LCS 880-112770/2-A  | Lab Control Sample     | 79   | 84                |
| LCSD 880-112770/3-A | Lab Control Sample Dup | 92   | 94                |
| MB 880-112770/1-A   | Method Blank           | 73   | 81                |

**Surrogate Legend**  
 1CO = 1-Chlorooctane  
 OTPH = o-Terphenyl

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112742/5-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:42 | 06/23/25 13:39 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 86           |              | 70 - 130 | 06/23/25 09:42 | 06/23/25 13:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92           |              | 70 - 130 | 06/23/25 09:42 | 06/23/25 13:39 | 1       |

Lab Sample ID: LCS 880-112742/1-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09095    |               | mg/Kg |   | 91   | 70 - 130    |
| Toluene             | 0.100       | 0.09077    |               | mg/Kg |   | 91   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09204    |               | mg/Kg |   | 92   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1644     |               | mg/Kg |   | 82   | 70 - 130    |
| o-Xylene            | 0.100       | 0.08370    |               | mg/Kg |   | 84   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 91            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

Lab Sample ID: LCSD 880-112742/2-A  
 Matrix: Solid  
 Analysis Batch: 112766

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112742

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09500     |                | mg/Kg |   | 95   | 70 - 130    | 4   | 35        |
| Toluene             | 0.100       | 0.09604     |                | mg/Kg |   | 96   | 70 - 130    | 6   | 35        |
| Ethylbenzene        | 0.100       | 0.1000      |                | mg/Kg |   | 100  | 70 - 130    | 8   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2003      |                | mg/Kg |   | 100  | 70 - 130    | 20  | 35        |
| o-Xylene            | 0.100       | 0.1011      |                | mg/Kg |   | 101  | 70 - 130    | 19  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96             |                | 70 - 130 |

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112770/1-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

| Surrogate      | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 73        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

Lab Sample ID: LCS 880-112770/2-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
|                                      |             |            |               |       |   |      |             |
| Diesel Range Organics (Over C10-C28) | 1000        | 1212       |               | mg/Kg |   | 121  | 70 - 130    |

| Surrogate      | LCS       | LCS       | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 79        |           | 70 - 130 |
| o-Terphenyl    | 84        |           | 70 - 130 |

Lab Sample ID: LCSD 880-112770/3-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD |       |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
|                                      |             |             |                |       |   |      |             | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1025        |                | mg/Kg |   | 103  | 70 - 130    | 1   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1092        |                | mg/Kg |   | 109  | 70 - 130    | 10  | 20    |

| Surrogate      | LCSD      | LCSD      | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112861/1-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|          | Result | Qualifier |      |     |       |   |          |                |         |
| Chloride | <10.0  | U         | 10.0 |     | mg/Kg |   |          | 06/25/25 01:23 | 1       |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Lab Sample ID: LCS 880-112861/2-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 254.1      |               | mg/Kg |   | 102  | 90 - 110    |

Lab Sample ID: LCSD 880-112861/3-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 253.8       |                | mg/Kg |   | 102  | 90 - 110    | 0   | 20        |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

#### GC VOA

##### Prep Batch: 112742

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8322-1          | HA - 12                | Total/NA  | Solid  | 5035   |            |
| 890-8322-2          | HA - 12                | Total/NA  | Solid  | 5035   |            |
| 890-8322-3          | HA - 12                | Total/NA  | Solid  | 5035   |            |
| MB 880-112742/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112742/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-112742/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 112766

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8322-1          | HA - 12                | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8322-2          | HA - 12                | Total/NA  | Solid  | 8021B  | 112742     |
| 890-8322-3          | HA - 12                | Total/NA  | Solid  | 8021B  | 112742     |
| MB 880-112742/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112742     |
| LCS 880-112742/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112742     |
| LCSD 880-112742/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112742     |

##### Analysis Batch: 112959

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8322-1    | HA - 12          | Total/NA  | Solid  | Total BTEX |            |
| 890-8322-2    | HA - 12          | Total/NA  | Solid  | Total BTEX |            |
| 890-8322-3    | HA - 12          | Total/NA  | Solid  | Total BTEX |            |

#### GC Semi VOA

##### Prep Batch: 112770

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8322-1          | HA - 12                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8322-2          | HA - 12                | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8322-3          | HA - 12                | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 112830

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8322-1          | HA - 12                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8322-2          | HA - 12                | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8322-3          | HA - 12                | Total/NA  | Solid  | 8015B NM | 112770     |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 112770     |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112770     |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112770     |

##### Analysis Batch: 112931

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8322-1    | HA - 12          | Total/NA  | Solid  | 8015 NM |            |
| 890-8322-2    | HA - 12          | Total/NA  | Solid  | 8015 NM |            |
| 890-8322-3    | HA - 12          | Total/NA  | Solid  | 8015 NM |            |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

#### HPLC/IC

##### Leach Batch: 112861

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8322-1          | HA - 12                | Soluble   | Solid  | DI Leach |            |
| 890-8322-2          | HA - 12                | Soluble   | Solid  | DI Leach |            |
| 890-8322-3          | HA - 12                | Soluble   | Solid  | DI Leach |            |
| MB 880-112861/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112861/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 112921

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8322-1          | HA - 12                | Soluble   | Solid  | 300.0  | 112861     |
| 890-8322-2          | HA - 12                | Soluble   | Solid  | 300.0  | 112861     |
| 890-8322-3          | HA - 12                | Soluble   | Solid  | 300.0  | 112861     |
| MB 880-112861/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112861     |
| LCS 880-112861/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112861     |
| LCSD 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112861     |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
 SDG: Eddy County, NM

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-1**

Date Collected: 06/20/25 11:45

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 18:30       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112959       | 06/23/25 18:30       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112931       | 06/23/25 20:30       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.96 g         | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 20:30       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 03:50       | CS      | EET MID |

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-2**

Date Collected: 06/20/25 11:50

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.96 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 18:50       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112959       | 06/23/25 18:50       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112931       | 06/23/25 21:01       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 21:01       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 112921       | 06/25/25 03:55       | CS      | EET MID |

**Client Sample ID: HA - 12**

**Lab Sample ID: 890-8322-3**

Date Collected: 06/20/25 11:55

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112742       | 06/23/25 09:42       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112766       | 06/23/25 19:11       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112959       | 06/23/25 19:11       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112931       | 06/23/25 21:16       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.08 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 21:16       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 5          |                |              | 112921       | 06/25/25 04:01       | CS      | 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: Ross Draw Unit # 044H

Job ID: 890-8322-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-25        |

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

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

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### Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit # 044H

Job ID: 890-8322-1  
SDG: Eddy 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: Ross Draw Unit # 044H

Job ID: 890-8322-1  
SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8322-1    | HA - 12          | Solid  | 06/20/25 11:45 | 06/20/25 15:22 | 0.5   |
| 890-8322-2    | HA - 12          | Solid  | 06/20/25 11:50 | 06/20/25 15:22 | 2     |
| 890-8322-3    | HA - 12          | Solid  | 06/20/25 11:55 | 06/20/25 15:22 | 4     |

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8322-1  
SDG Number: Eddy County, NM

**Login Number: 8322**

**List Number: 1**

**Creator: Bruns, Shannon**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8322-1  
SDG Number: Eddy County, NM

**Login Number: 8322**  
**List Number: 2**  
**Creator: Rios, Minerva**

**List Source: Eurofins Midland**  
**List Creation: 06/23/25 11:23 AM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/25/2025 10:48:44 AM

## JOB DESCRIPTION

Ross Draw Unit #044H  
 Eddy County, NM

## JOB NUMBER

890-8321-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



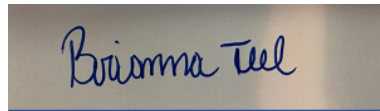
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
6/25/2025 10:48:44 AM

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

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Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Laboratory Job ID: 890-8321-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8321-1

**Job ID: 890-8321-1**

**Eurofins Carlsbad**

## Job Narrative 890-8321-1

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

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

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

### Receipt

The samples were received on 6/20/2025 3:22 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 0.2°C.

### GC VOA

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

### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: HA-12 (890-8321-1), HA-12A (890-8321-2), HA-12A (890-8321-3) and (890-8320-A-7-B). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

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

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-12**

**Lab Sample ID: 890-8321-1**

Date Collected: 06/20/25 12:00

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:36 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 06/23/25 12:36 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.6  | U         | 49.6 |     | mg/Kg |   |          | 06/23/25 19:46 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.6  | U         | 49.6 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 19:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 133       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:46 | 1       |
| o-Terphenyl    | 147       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 19:46 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 197    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 03:21 | 1       |

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-2**

Date Collected: 06/20/25 12:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:56 | 1       |

Eurofins Carlsbad

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-2**

Date Collected: 06/20/25 12:05

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 2

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 99        |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:56 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 06/23/25 12:56 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 06/23/25 20:00 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:00 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:00 | 1       |
| o-Terphenyl    | 144       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:00 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 752    |           | 10.1 |     | mg/Kg |   |          | 06/25/25 03:38 | 1       |

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-3**

Date Collected: 06/20/25 12:10

Matrix: Solid

Date Received: 06/20/25 15:22

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 |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 13:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 13:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 06/23/25 09:47 | 06/23/25 13:17 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 06/23/25 13:17 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.1  | U         | 50.1 |     | mg/Kg |   |          | 06/23/25 20:15 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-3**

Date Collected: 06/20/25 12:10

Matrix: Solid

Date Received: 06/20/25 15:22

Sample Depth: 4

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:15 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:15 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.1  | U         | 50.1 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 20:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 131       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:15 | 1       |
| o-Terphenyl    | 147       | S1+       | 70 - 130 | 06/23/25 10:21 | 06/23/25 20:15 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 959    |           | 9.98 |     | mg/Kg |   |          | 06/25/25 03:44 | 1       |

## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8321-1          | HA-12                  | 106  | 101               |
| 890-8321-1 MS       | HA-12                  | 89   | 87                |
| 890-8321-1 MSD      | HA-12                  | 95   | 93                |
| 890-8321-2          | HA-12A                 | 109  | 99                |
| 890-8321-3          | HA-12A                 | 104  | 102               |
| LCS 880-112746/1-A  | Lab Control Sample     | 95   | 93                |
| LCSD 880-112746/2-A | Lab Control Sample Dup | 91   | 89                |
| MB 880-112746/5-A   | Method Blank           | 97   | 94                |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8321-1          | HA-12                  | 133 S1+  | 147 S1+           |
| 890-8321-2          | HA-12A                 | 131 S1+  | 144 S1+           |
| 890-8321-3          | HA-12A                 | 131 S1+  | 147 S1+           |
| LCS 880-112770/2-A  | Lab Control Sample     | 79   | 84                |
| LCSD 880-112770/3-A | Lab Control Sample Dup | 92   | 94                |
| MB 880-112770/1-A   | Method Blank           | 73   | 81                |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-112746/5-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 94           |              | 70 - 130 | 06/23/25 09:47 | 06/23/25 12:14 | 1       |

Lab Sample ID: LCS 880-112746/1-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1071     |               | mg/Kg |   | 107  | 70 - 130    |
| Toluene             | 0.100       | 0.1020     |               | mg/Kg |   | 102  | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1050     |               | mg/Kg |   | 105  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2145     |               | mg/Kg |   | 107  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1075     |               | mg/Kg |   | 108  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 95            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: LCSD 880-112746/2-A  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| Benzene             | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35    |
| Toluene             | 0.100       | 0.1008      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35    |
| Ethylbenzene        | 0.100       | 0.1042      |                | mg/Kg |   | 104  | 70 - 130    | 1   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2109      |                | mg/Kg |   | 105  | 70 - 130    | 2   | 35    |
| o-Xylene            | 0.100       | 0.1060      |                | mg/Kg |   | 106  | 70 - 130    | 1   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 91             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 89             |                | 70 - 130 |

Lab Sample ID: 890-8321-1 MS  
 Matrix: Solid  
 Analysis Batch: 112726

Client Sample ID: HA-12  
 Prep Type: Total/NA  
 Prep Batch: 112746

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200      | U                | 0.100       | 0.09756   |              | mg/Kg |   | 98   | 70 - 130    |
| Toluene | <0.00200      | U                | 0.100       | 0.09394   |              | mg/Kg |   | 94   | 70 - 130    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8321-1 MS

Client Sample ID: HA-12

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112726

Prep Batch: 112746

| Analyte             | Sample   | Sample    | Spike | MS      | MS        | Unit  | D | %Rec | %Rec     |
|---------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|
|                     | Result   | Qualifier |       | Result  | Qualifier |       |   |      |          |
| Ethylbenzene        | <0.00200 | U         | 0.100 | 0.09858 |           | mg/Kg |   | 99   | 70 - 130 |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.200 | 0.2028  |           | mg/Kg |   | 101  | 70 - 130 |
| o-Xylene            | <0.00200 | U         | 0.100 | 0.1017  |           | mg/Kg |   | 102  | 70 - 130 |

| Surrogate                   | MS        | MS        | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 87        |           | 70 - 130 |

Lab Sample ID: 890-8321-1 MSD

Client Sample ID: HA-12

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112726

Prep Batch: 112746

| Analyte             | Sample   | Sample    | Spike | MSD    | MSD       | Unit  | D | %Rec | %Rec     | RPD | Limit |
|---------------------|----------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
|                     | Result   | Qualifier |       | Result | Qualifier |       |   |      |          |     |       |
| Benzene             | <0.00200 | U         | 0.100 | 0.1100 |           | mg/Kg |   | 110  | 70 - 130 | 12  | 35    |
| Toluene             | <0.00200 | U         | 0.100 | 0.1038 |           | mg/Kg |   | 104  | 70 - 130 | 10  | 35    |
| Ethylbenzene        | <0.00200 | U         | 0.100 | 0.1102 |           | mg/Kg |   | 110  | 70 - 130 | 11  | 35    |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.200 | 0.2271 |           | mg/Kg |   | 114  | 70 - 130 | 11  | 35    |
| o-Xylene            | <0.00200 | U         | 0.100 | 0.1119 |           | mg/Kg |   | 112  | 70 - 130 | 10  | 35    |

| Surrogate                   | MSD       | MSD       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |

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

Lab Sample ID: MB 880-112770/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112830

Prep Batch: 112770

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

| Surrogate      | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 73        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 06/23/25 10:21 | 06/23/25 09:29 | 1       |

Lab Sample ID: LCS 880-112770/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 112830

Prep Batch: 112770

| Analyte                              | Spike | LCS  | LCS | Unit  | D | %Rec | %Rec     |
|--------------------------------------|-------|------|-----|-------|---|------|----------|
|                                      |       |      |     |       |   |      |          |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 1040 |     | mg/Kg |   | 104  | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000  | 1212 |     | mg/Kg |   | 121  | 70 - 130 |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-112770/2-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Surrogate      | LCS LCS   |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 79        |           | 70 - 130 |
| o-Terphenyl    | 84        |           | 70 - 130 |

Lab Sample ID: LCSD 880-112770/3-A  
 Matrix: Solid  
 Analysis Batch: 112830

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 112770

| Analyte                              | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|--------------------------------------|-------------|-----------|-----------|-------|---|------|----------|-----|-----|-------|
|                                      |             | Result    | Qualifier |       |   |      | Limits   | RPD |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1025      |           | mg/Kg |   | 103  | 70 - 130 | 1   | 20  |       |
| Diesel Range Organics (Over C10-C28) | 1000        | 1092      |           | mg/Kg |   | 109  | 70 - 130 | 10  | 20  |       |

| Surrogate      | LCSD LCSD |           | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 94        |           | 70 - 130 |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112861/1-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB MB  |           | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|          | Result | Qualifier |      |     |       |   |          |                |         |
| Chloride | <10.0  | U         | 10.0 |     | mg/Kg |   |          | 06/25/25 01:23 | 1       |

Lab Sample ID: LCS 880-112861/2-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

| Analyte  | Spike Added | LCS LCS |           | Unit  | D | %Rec | %Rec     |     |
|----------|-------------|---------|-----------|-------|---|------|----------|-----|
|          |             | Result  | Qualifier |       |   |      | Limits   | RPD |
| Chloride | 250         | 254.1   |           | mg/Kg |   | 102  | 90 - 110 |     |

Lab Sample ID: LCSD 880-112861/3-A  
 Matrix: Solid  
 Analysis Batch: 112921

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

| Analyte  | Spike Added | LCSD LCSD |           | Unit  | D | %Rec | %Rec     |     | RPD | Limit |
|----------|-------------|-----------|-----------|-------|---|------|----------|-----|-----|-------|
|          |             | Result    | Qualifier |       |   |      | Limits   | RPD |     |       |
| Chloride | 250         | 253.8     |           | mg/Kg |   | 102  | 90 - 110 | 0   | 20  |       |

### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

#### GC VOA

##### Analysis Batch: 112726

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8321-1          | HA-12                  | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8321-2          | HA-12A                 | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8321-3          | HA-12A                 | Total/NA  | Solid  | 8021B  | 112746     |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 112746     |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 112746     |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8321-1 MS       | HA-12                  | Total/NA  | Solid  | 8021B  | 112746     |
| 890-8321-1 MSD      | HA-12                  | Total/NA  | Solid  | 8021B  | 112746     |

##### Prep Batch: 112746

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8321-1          | HA-12                  | Total/NA  | Solid  | 5035   |            |
| 890-8321-2          | HA-12A                 | Total/NA  | Solid  | 5035   |            |
| 890-8321-3          | HA-12A                 | Total/NA  | Solid  | 5035   |            |
| MB 880-112746/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-112746/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-112746/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-8321-1 MS       | HA-12                  | Total/NA  | Solid  | 5035   |            |
| 890-8321-1 MSD      | HA-12                  | Total/NA  | Solid  | 5035   |            |

##### Analysis Batch: 112815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8321-1    | HA-12            | Total/NA  | Solid  | Total BTEX |            |
| 890-8321-2    | HA-12A           | Total/NA  | Solid  | Total BTEX |            |
| 890-8321-3    | HA-12A           | Total/NA  | Solid  | Total BTEX |            |

#### GC Semi VOA

##### Prep Batch: 112770

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-8321-1          | HA-12                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8321-2          | HA-12A                 | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8321-3          | HA-12A                 | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

##### Analysis Batch: 112830

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8321-1          | HA-12                  | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8321-2          | HA-12A                 | Total/NA  | Solid  | 8015B NM | 112770     |
| 890-8321-3          | HA-12A                 | Total/NA  | Solid  | 8015B NM | 112770     |
| MB 880-112770/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 112770     |
| LCS 880-112770/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 112770     |
| LCSD 880-112770/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 112770     |

##### Analysis Batch: 112930

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8321-1    | HA-12            | Total/NA  | Solid  | 8015 NM |            |
| 890-8321-2    | HA-12A           | Total/NA  | Solid  | 8015 NM |            |
| 890-8321-3    | HA-12A           | Total/NA  | Solid  | 8015 NM |            |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

#### HPLC/IC

##### Leach Batch: 112861

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8321-1          | HA-12                  | Soluble   | Solid  | DI Leach |            |
| 890-8321-2          | HA-12A                 | Soluble   | Solid  | DI Leach |            |
| 890-8321-3          | HA-12A                 | Soluble   | Solid  | DI Leach |            |
| MB 880-112861/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-112861/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

##### Analysis Batch: 112921

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8321-1          | HA-12                  | Soluble   | Solid  | 300.0  | 112861     |
| 890-8321-2          | HA-12A                 | Soluble   | Solid  | 300.0  | 112861     |
| 890-8321-3          | HA-12A                 | Soluble   | Solid  | 300.0  | 112861     |
| MB 880-112861/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 112861     |
| LCS 880-112861/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 112861     |
| LCSD 880-112861/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 112861     |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-12**

**Lab Sample ID: 890-8321-1**

Date Collected: 06/20/25 12:00

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.99 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 12:36       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112815       | 06/23/25 12:36       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112930       | 06/23/25 19:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.09 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 19:46       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 03:21       | CS      | EET MID |

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-2**

Date Collected: 06/20/25 12:05

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 12:56       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112815       | 06/23/25 12:56       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112930       | 06/23/25 20:00       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 20:00       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 03:38       | CS      | EET MID |

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8321-3**

Date Collected: 06/20/25 12:10

Matrix: Solid

Date Received: 06/20/25 15:22

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 112746       | 06/23/25 09:47       | MNR     | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 112726       | 06/23/25 13:17       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 112815       | 06/23/25 13:17       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 112930       | 06/23/25 20:15       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 9.98 g         | 10 mL        | 112770       | 06/23/25 10:21       | FC      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 112830       | 06/23/25 20:15       | TKC     | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 112861       | 06/24/25 09:29       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 112921       | 06/25/25 03:44       | CS      | 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: Ross Draw Unit #044H

Job ID: 890-8321-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-25        |

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

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

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### Method Summary

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8321-1  
 SDG: Eddy 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: Ross Draw Unit #044H

Job ID: 890-8321-1  
SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8321-1    | HA-12            | Solid  | 06/20/25 12:00 | 06/20/25 15:22 | 0.5   |
| 890-8321-2    | HA-12A           | Solid  | 06/20/25 12:05 | 06/20/25 15:22 | 2     |
| 890-8321-3    | HA-12A           | Solid  | 06/20/25 12:10 | 06/20/25 15:22 | 4     |

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Environment Testing  
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Chain of Custody

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



890-8321 Chain of Custody

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Page 1 of 1

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

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

| Project Name:            | ROSS DRAW UNIT #044H | Turn Around   | Pres. Code   | ANALYSIS REQUEST |           |           |         |             |         |      |            |  |  |  | Preservative Codes  |  |  |  |  |  |  |  |                 |
|--------------------------|----------------------|---|--------------|------------------|-----------|-----------|---------|-------------|---------|------|------------|--|--|--|---|--|--|--|--|--|--|--|-----------------|
| Project Number:          | 155                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |              |                  |           |           |         |             |         |      |            |  |  |  | None: NO  |  |  |  |  |  |  |  |                 |
| Project Location:        | Eddy County, NM      | Due Date:   |              |                  |           |           |         |             |         |      |            |  |  |  | COOL: Cool  |  |  |  |  |  |  |  |                 |
| Sampler's Name:          | Santiago Giron       | TAT starts the day received by the lab, if received by 4:30pm             |              |                  |           |           |         |             |         |      |            |  |  |  | HCL: HC   |  |  |  |  |  |  |  |                 |
| CGWO #:                  | 21547716             | Wet Ice:  | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                   |  |  |  |  |  |  |  |                 |
| <b>SAMPLE RECEIPT</b>    | Temp Blank:          | Yes/No  | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | H <sub>3</sub> PO <sub>4</sub> : HP                               |  |  |  |  |  |  |  |                 |
| Samples Received Intact: | Yes/No               | Thermometer ID:   | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | NaHSO <sub>4</sub> : NABIS  |  |  |  |  |  |  |  |                 |
| Cooler Custody Seals:    | Yes/No               | Correction Factor:  | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |  |  |  |  |  |  |  |                 |
| Sample Custody Seals:    | Yes/No               | Temperature Reading:  | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | Zn-Acetate+NaOH: Zn   |  |  |  |  |  |  |  |                 |
| Total Containers:        |                      | Corrected Temperature:  | (Yes/No)     |                  |           |           |         |             |         |      |            |  |  |  | NaOH+Ascorbic Acid: SAPC  |  |  |  |  |  |  |  |                 |
| Sample Identification    | Matrix               | Date Sampled  | Time Sampled | Depth (feet)     | Grab/Comp | # of Cont | TPH -NM | Chloride-NM | BTEX-NM | Hold | 24 Hr Rush |  |  |  |   |  |  |  |  |  |  |  | Sample Comments |
| HA-12A                   | S                    | 6.20.25   | 12:00        | 0.5              | Grab/     | 1         | X       | X           | X       |      |            |  |  |  |   |  |  |  |  |  |  |  | Incident Number |
| HA-12A                   | S                    | 6.20.25   | 12:05        | 2                | Grab/     | 1         | X       | X           | X       |      |            |  |  |  |   |  |  |  |  |  |  |  | nAPP2508325453  |
| HA-12A                   | S                    | 6.20.25   | 12:10        | 4                | Grab/     | 1         | X       | X           | X       |      |            |  |  |  |   |  |  |  |  |  |  |  |                 |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed

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

|                              |                          |           |                              |                          |           |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i>           | <i>[Signature]</i>       | 6/20/15   | <i>[Signature]</i>           | <i>[Signature]</i>       | 4         |
|                              |                          |           |                              |                          | 6         |



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



890-8321 Chain of Custody

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

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

| Project Name:            | ROSS DRAW UNIT #044H   | Turn Around   | Pres. Code   | ANALYSIS REQUEST |             |           |      |            |   |   |  |  |  |  | Preservative Codes |  |   |                            |                 |
|--------------------------|------------------------|---|--------------|------------------|-------------|-----------|------|------------|---|---|--|--|--|--|--------------------|--|---|----------------------------|-----------------|
| Project Number:          | 155                    | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |              | TPH -NM          | Chloride-NM | BTEX-NM   | Hold | 24 Hr Rush |   |   |  |  |  |  |                    |  | None: NO  | DI Water: H <sub>2</sub> O |                 |
| Project Location:        | Eddy County, NM        | Due Date:   | Routine TAT  |                  |             |           |      |            |   |   |  |  |  |  |                    |  | COOL: COOL  | MeOH: Me                   |                 |
| Sampler's Name:          | Santiago Giron         | TAT starts the day received by the lab, if received by 4:30pm             |              |                  |             |           |      |            |   |   |  |  |  |  |                    |  | HCL: HC   | HNO <sub>3</sub> : HN      |                 |
| CGWO #:                  | 21547716               | Wet Ice:  | (Yes/No)     |                  |             |           |      |            |   |   |  |  |  |  |                    |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                   | NaOH: Na                   |                 |
| <b>SAMPLE RECEIPT</b>    | Temp Blank:            | Yes/No  | (Yes/No)     |                  |             |           |      |            |   |   |  |  |  |  |                    |  | H <sub>3</sub> PO <sub>4</sub> : HP                               |                            |                 |
| Samples Received Intact: | Yes/No                 | Thermometer ID:   | (Yes/No)     |                  |             |           |      |            |   |   |  |  |  |  |                    |  | NaHSO <sub>4</sub> : NABIS  |                            |                 |
| Cooler Custody Seals:    | Yes/No                 | Correction Factor:  | (Yes/No)     |                  |             |           |      |            |   |   |  |  |  |  |                    |  | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |                            |                 |
| Sample Custody Seals:    | Yes/No                 | Temperature Reading:  | (Yes/No)     |                  |             |           |      |            |   |   |  |  |  |  |                    |  | Zn-Acetate+NaOH: Zn   |                            |                 |
| Total Containers:        | Corrected Temperature: |   |              |                  |             |           |      |            |   |   |  |  |  |  |                    |  | NaOH+Ascorbic Acid: SAPC  |                            |                 |
| Sample Identification    | Matrix                 | Date Sampled  | Time Sampled | Depth (feet)     | Grab/Comp   | # of Cont |      |            |   |   |  |  |  |  |                    |  |   | Sample Comments            |                 |
| HA-12A                   | S                      | 6.20.25   | 12:00        | 0.5              | Grab/       | 1         | X    | X          | X | X |  |  |  |  |                    |  |   |                            | Incident Number |
| HA-12A                   | S                      | 6.20.25   | 12:05        | 2                | Grab/       | 1         | X    | X          | X | X |  |  |  |  |                    |  |   |                            | nAPP2508325453  |
| HA-12A                   | S                      | 6.20.25   | 12:10        | 4                | Grab/       | 1         | X    | X          | X | X |  |  |  |  |                    |  |   |                            |                 |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed

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|                              |                          |           |                              |                          |           |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|                              |                          | 6/20/15   |                              |                          |           |





890-8321 Chain of Custody

WORK ORDER NO.

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# Chain of Custody

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 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing**  
**Xenco**



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

**Work Order Comments**

Program:  UST/PST  PRP  Brownfields  RRC  Superfund

State of Project: Reporting: Level II  Level III  PST/UST  TRRP  Level IV

Deliverables: EDD  ADaPT  Other:

| Project Name:            | ROSS DRAW UNIT #044H | Turn Around   | Pres. Code | ANALYSIS REQUEST       | Preservative Codes                                       |
|--------------------------|----------------------|---|------------|------------------------|--|
| Project Number:          | 155                  | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush |            |                        | None: NO DI Water: H <sub>2</sub> O                      |
| Project Location:        | Eddy County, NM      | Due Date: Routine TAT   |            |                        | Cool: Cool MeOH: Me                                      |
| Sampler's Name:          | Santiago Giron       | TAT starts the day received by the lab, if received by 4:30pm             |            |                        | HCL: HC HNO <sub>3</sub> : HN                            |
| CC/WO #:                 | 21547716             |   |            |                        | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na |
| <b>SAMPLE RECEIPT</b>    |                      |   |            |                        |  |
| Samples Received Intact: | Yes No               | Temp Blank:   | Yes No     | Wet Ice:               | Yes No   |
| Cooler Custody Seals:    | Yes No               | Thermometer ID:   | Yes No     | Correction Factor:     | Yes No   |
| Sample Custody Seals:    | Yes No               | Temperature Reading:  | Yes No     | Corrected Temperature: | Yes No   |
| Total Containers:        |                      |   |            |                        |  |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth (feet) | Grab/Comp | TPH -NM | Chloride -NM | BTEX -NM | 24 Hr Rush | Incident Number |
|-----------------------|--------|--------------|--------------|--------------|-----------|---------|--------------|----------|------------|-----------------|
| HA-12A                | S      | 6.20.25      | 12:00        | 0.5          | Grab/1    | X       | X            | X        |            | nAPP2508325453  |
| HA-12A                | S      | 6.20.25      | 12:05        | 2            | Grab/1    | X       | X            | X        |            |                 |
| HA-12A                | S      | 6.20.25      | 12:10        | 4            | Grab/1    | X       | X            | X        |            |                 |

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed Hg: 1631 / 245.1 / 7470 / 7471

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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
|                              | <i>[Signature]</i>       | 6/20/15   |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |
|                              |                          |           |                              |                          |           |

Revised Date: 08/25/2020 Rev. 2020.2







### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8321-1  
SDG Number: Eddy County, NM

**Login Number: 8321**

**List Number: 1**

**Creator: Lopez, Abraham**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8321-1  
SDG Number: Eddy County, NM

**Login Number: 8321**  
**List Number: 2**  
**Creator: Rios, Minerva**

**List Source: Eurofins Midland**  
**List Creation: 06/23/25 11:21 AM**

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

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Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 10/8/2025 9:33:20 AM

## JOB DESCRIPTION

Ross Draw Unit #044H  
 Eddy County, NM

## JOB NUMBER

890-8900-1

Eurofins Carlsbad  
 1089 N Canal St.  
 Carlsbad NM 88220



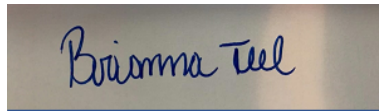
# Eurofins Carlsbad

## Job Notes

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

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

## Authorization



Generated  
10/8/2025 9:33:20 AM

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

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Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Laboratory Job ID: 890-8900-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

# Case Narrative

Client: Earth Systems Response and Restoration  
Project: Ross Draw Unit #044H

Job ID: 890-8900-1

**Job ID: 890-8900-1**

**Eurofins Carlsbad**

## Job Narrative 890-8900-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 10/1/2025 4:25 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 -12.2°C.

### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-3 (890-8900-1), HA-3 (890-8900-2), HA-5 (890-8900-3), HA-5 (890-8900-4), HA-5 (890-8900-5), HA-12 (890-8900-6), HA-12 (890-8900-7), HA-12A (890-8900-8) and HA-12A (890-8900-9).

### GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-120458 and analytical batch 880-120607 was outside the upper control limits.

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

### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: HA-5 (890-8900-3). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

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

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-3**

**Lab Sample ID: 890-8900-1**

Date Collected: 10/01/25 09:00

Matrix: Solid

Date Received: 10/01/25 16:25

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 |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:18 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 84        |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 00:18 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 00:18 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 10/08/25 00:18 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 10/07/25 04:49 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 04:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 04:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 04:49 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 74        |           | 70 - 130 | 10/03/25 08:13 | 10/07/25 04:49 | 1       |
| o-Terphenyl    | 82        |           | 70 - 130 | 10/03/25 08:13 | 10/07/25 04:49 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 493    |           | 10.1 |     | mg/Kg |   |          | 10/06/25 15:40 | 1       |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-3**

Date Collected: 10/01/25 09:20

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 6

**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 |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 00:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 123       |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 00:58 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-3**

Date Collected: 10/01/25 09:20

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 6

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 106       |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 00:58 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 10/08/25 00:58 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 10/07/25 05:04 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:04 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 64        | S1-       | 70 - 130 | 10/03/25 08:13 | 10/07/25 05:04 | 1       |
| o-Terphenyl    | 74        |           | 70 - 130 | 10/03/25 08:13 | 10/07/25 05:04 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1280   |           | 9.96 |     | mg/Kg |   |          | 10/06/25 15:46 | 1       |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-4**

Date Collected: 10/01/25 09:25

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 8

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112       |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 01:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 01:19 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00396 | U         | 0.00396 |     | mg/Kg |   |          | 10/08/25 01:19 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 |     | mg/Kg |   |          | 10/07/25 05:17 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-4**

Date Collected: 10/01/25 09:25

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 8

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8     | U         | 49.8     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:17 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 72        |           | 70 - 130 |     |       |   | 10/03/25 08:13 | 10/07/25 05:17 | 1       |
| o-Terphenyl                          | 82        |           | 70 - 130 |     |       |   | 10/03/25 08:13 | 10/07/25 05:17 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 2000   |           | 101 |     | mg/Kg |   |          | 10/06/25 15:52 | 10      |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-5**

Date Collected: 10/01/25 09:30

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 10

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 |     |       |   | 10/03/25 11:53 | 10/08/25 01:39 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 10/08/25 01:39 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 10/07/25 05:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:32 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:32 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 05:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 71        |           | 70 - 130 |     |       |   | 10/03/25 08:13 | 10/07/25 05:32 | 1       |
| o-Terphenyl                          | 80        |           | 70 - 130 |     |       |   | 10/03/25 08:13 | 10/07/25 05:32 | 1       |

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### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-5**

Date Collected: 10/01/25 09:30

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 10

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 363    |           | 10.0 |     | mg/Kg |   |          | 10/06/25 15:58 | 1       |

**Client Sample ID: HA-12**

**Lab Sample ID: 890-8900-6**

Date Collected: 10/01/25 09:50

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 6

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

| Analyte                     | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene                     | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| Toluene                     | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| Ethylbenzene                | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| m-Xylene & p-Xylene         | <0.00402         | U                | 0.00402       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| o-Xylene                    | <0.00201         | U                | 0.00201       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| Xylenes, Total              | <0.00402         | U                | 0.00402       |     | mg/Kg |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 124              |                  | 70 - 130      |     |       |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |
| 1,4-Difluorobenzene (Surr)  | 107              |                  | 70 - 130      |     |       |   | 10/03/25 11:53  | 10/08/25 02:00  | 1              |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U         | 0.00402 |     | mg/Kg |   |          | 10/08/25 02:00 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <50.0  | U         | 50.0 |     | mg/Kg |   |          | 10/07/25 05:46 | 1       |

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

| Analyte                              | Result           | Qualifier        | RL            | MDL | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0            | U                | 50.0          |     | mg/Kg |   | 10/03/25 08:13  | 10/07/25 05:46  | 1              |
| Diesel Range Organics (Over C10-C28) | <50.0            | U                | 50.0          |     | mg/Kg |   | 10/03/25 08:13  | 10/07/25 05:46  | 1              |
| Oil Range Organics (Over C28-C36)    | <50.0            | U                | 50.0          |     | mg/Kg |   | 10/03/25 08:13  | 10/07/25 05:46  | 1              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |     |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1-Chlorooctane                       | 73               |                  | 70 - 130      |     |       |   | 10/03/25 08:13  | 10/07/25 05:46  | 1              |
| o-Terphenyl                          | 82               |                  | 70 - 130      |     |       |   | 10/03/25 08:13  | 10/07/25 05:46  | 1              |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 132    |           | 10.1 |     | mg/Kg |   |          | 10/06/25 16:04 | 1       |

### Client Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8900-8**

Date Collected: 10/01/25 10:00

Matrix: Solid

Date Received: 10/01/25 16:25

Sample Depth: 6

**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 |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 10/03/25 11:53 | 10/08/25 02:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 133       | S1+       | 70 - 130 | 10/03/25 11:53 | 10/08/25 02:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 10/03/25 11:53 | 10/08/25 02:20 | 1       |

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 10/08/25 02:20 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | <49.9  | U         | 49.9 |     | mg/Kg |   |          | 10/07/25 06:00 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 06:00 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 06:00 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 10/03/25 08:13 | 10/07/25 06:00 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 75        |           | 70 - 130 | 10/03/25 08:13 | 10/07/25 06:00 | 1       |
| o-Terphenyl    | 87        |           | 70 - 130 | 10/03/25 08:13 | 10/07/25 06:00 | 1       |

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 99.1   |           | 10.1 |     | mg/Kg |   |          | 10/06/25 16:10 | 1       |

## Surrogate Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-8900-1          | HA-3                   | 84   | 93                |
| 890-8900-1 MS       | HA-3                   | 97   | 86                |
| 890-8900-1 MSD      | HA-3                   | 99   | 88                |
| 890-8900-3          | HA-5                   | 123  | 106               |
| 890-8900-4          | HA-5                   | 112  | 99                |
| 890-8900-5          | HA-5                   | 111  | 104               |
| 890-8900-6          | HA-12                  | 124  | 107               |
| 890-8900-8          | HA-12A                 | 133 S1+  | 109               |
| LCS 880-120458/1-A  | Lab Control Sample     | 98   | 93                |
| LCSD 880-120458/2-A | Lab Control Sample Dup | 93   | 93                |
| MB 880-120458/5-A   | Method Blank           | 160 S1+  | 89                |
| MB 880-120601/5-A   | Method Blank           | 166 S1+  | 97                |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID       | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------------|------------------------|--|-------------------|
|                     |                        | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-8900-1          | HA-3                   | 74   | 82                |
| 890-8900-3          | HA-5                   | 64 S1-   | 74                |
| 890-8900-4          | HA-5                   | 72   | 82                |
| 890-8900-5          | HA-5                   | 71   | 80                |
| 890-8900-6          | HA-12                  | 73   | 82                |
| 890-8900-8          | HA-12A                 | 75   | 87                |
| LCS 880-120398/2-A  | Lab Control Sample     | 111  | 115               |
| LCSD 880-120398/3-A | Lab Control Sample Dup | 114  | 116               |
| MB 880-120398/1-A   | Method Blank           | 95   | 103               |

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-120458/5-A  
 Matrix: Solid  
 Analysis Batch: 120607

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 120458

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 10/03/25 11:53 | 10/07/25 23:49 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 160          | S1+          | 70 - 130 | 10/03/25 11:53 | 10/07/25 23:49 | 1       |
| 1,4-Difluorobenzene (Surr)  | 89           |              | 70 - 130 | 10/03/25 11:53 | 10/07/25 23:49 | 1       |

Lab Sample ID: LCS 880-120458/1-A  
 Matrix: Solid  
 Analysis Batch: 120607

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 120458

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.09025    |               | mg/Kg |   | 90   | 70 - 130    |
| Toluene             | 0.100       | 0.09182    |               | mg/Kg |   | 92   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.08375    |               | mg/Kg |   | 84   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.1577     |               | mg/Kg |   | 79   | 70 - 130    |
| o-Xylene            | 0.100       | 0.08057    |               | mg/Kg |   | 81   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93            |               | 70 - 130 |

Lab Sample ID: LCSD 880-120458/2-A  
 Matrix: Solid  
 Analysis Batch: 120607

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 120458

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09583     |                | mg/Kg |   | 96   | 70 - 130    | 6   | 35        |
| Toluene             | 0.100       | 0.09093     |                | mg/Kg |   | 91   | 70 - 130    | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09262     |                | mg/Kg |   | 93   | 70 - 130    | 10  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1771      |                | mg/Kg |   | 89   | 70 - 130    | 12  | 35        |
| o-Xylene            | 0.100       | 0.08264     |                | mg/Kg |   | 83   | 70 - 130    | 3   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 93             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 93             |                | 70 - 130 |

Lab Sample ID: 890-8900-1 MS  
 Matrix: Solid  
 Analysis Batch: 120607

Client Sample ID: HA-3  
 Prep Type: Total/NA  
 Prep Batch: 120458

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00200      | U                | 0.100       | 0.08377   |              | mg/Kg |   | 84   | 70 - 130    |
| Toluene | <0.00200      | U                | 0.100       | 0.08185   |              | mg/Kg |   | 82   | 70 - 130    |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

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

Lab Sample ID: 890-8900-1 MS

Client Sample ID: HA-3

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 120607

Prep Batch: 120458

| Analyte             | Sample   | Sample    | Spike Added | MS      | MS        | Unit  | D | %Rec | %Rec Limits |
|---------------------|----------|-----------|-------------|---------|-----------|-------|---|------|-------------|
|                     | Result   | Qualifier |             | Result  | Qualifier |       |   |      |             |
| Ethylbenzene        | <0.00200 | U         | 0.100       | 0.08721 |           | mg/Kg |   | 87   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.200       | 0.1618  |           | mg/Kg |   | 81   | 70 - 130    |
| o-Xylene            | <0.00200 | U         | 0.100       | 0.07404 |           | mg/Kg |   | 74   | 70 - 130    |

| Surrogate                   | MS        | MS        | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 |

Lab Sample ID: 890-8900-1 MSD

Client Sample ID: HA-3

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 120607

Prep Batch: 120458

| Analyte             | Sample   | Sample    | Spike Added | MSD     | MSD       | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|---------------------|----------|-----------|-------------|---------|-----------|-------|---|------|-------------|-----|-------|
|                     | Result   | Qualifier |             | Result  | Qualifier |       |   |      |             |     |       |
| Benzene             | <0.00200 | U         | 0.100       | 0.07748 |           | mg/Kg |   | 77   | 70 - 130    | 8   | 35    |
| Toluene             | <0.00200 | U         | 0.100       | 0.07594 |           | mg/Kg |   | 76   | 70 - 130    | 7   | 35    |
| Ethylbenzene        | <0.00200 | U         | 0.100       | 0.07356 |           | mg/Kg |   | 74   | 70 - 130    | 17  | 35    |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.200       | 0.1613  |           | mg/Kg |   | 81   | 70 - 130    | 0   | 35    |
| o-Xylene            | <0.00200 | U         | 0.100       | 0.07655 |           | mg/Kg |   | 77   | 70 - 130    | 3   | 35    |

| Surrogate                   | MSD       | MSD       | Limits   |
|-----------------------------|-----------|-----------|----------|
|                             | %Recovery | Qualifier |          |
| 4-Bromofluorobenzene (Surr) | 99        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 |

Lab Sample ID: MB 880-120601/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 120607

Prep Batch: 120601

| Analyte             | MB       | MB        | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
|                     | Result   | Qualifier |         |     |       |   |                |                |         |
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 10/07/25 08:16 | 10/07/25 12:11 | 1       |

| Surrogate                   | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
|                             | %Recovery | Qualifier |          |                |                |         |
| 4-Bromofluorobenzene (Surr) | 166       | S1+       | 70 - 130 | 10/07/25 08:16 | 10/07/25 12:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 10/07/25 08:16 | 10/07/25 12:11 | 1       |

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

Lab Sample ID: MB 880-120398/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 120533

Prep Batch: 120398

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:12 | 10/07/25 03:08 | 1       |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

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

Lab Sample ID: MB 880-120398/1-A  
 Matrix: Solid  
 Analysis Batch: 120533

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 120398

| Analyte                              | MB     | MB        | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
|                                      | Result | Qualifier |      |     |       |   |                |                |         |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:12 | 10/07/25 03:08 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:12 | 10/07/25 03:08 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 10/03/25 08:12 | 10/07/25 03:08 | 1       |

| Surrogate      | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
|                | %Recovery | Qualifier |          |                |                |         |
| 1-Chlorooctane | 95        |           | 70 - 130 | 10/03/25 08:12 | 10/07/25 03:08 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 10/03/25 08:12 | 10/07/25 03:08 | 1       |

Lab Sample ID: LCS 880-120398/2-A  
 Matrix: Solid  
 Analysis Batch: 120533

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 120398

| Analyte                              | Spike Added | LCS    | LCS       | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|--------|-----------|-------|---|------|-------------|
|                                      |             | Result | Qualifier |       |   |      |             |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 921.8  |           | mg/Kg |   | 92   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1063   |           | mg/Kg |   | 106  | 70 - 130    |

| Surrogate      | LCS       | LCS       | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 111       |           | 70 - 130 |
| o-Terphenyl    | 115       |           | 70 - 130 |

Lab Sample ID: LCSD 880-120398/3-A  
 Matrix: Solid  
 Analysis Batch: 120533

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 120398

| Analyte                              | Spike Added | LCSD   | LCSD      | Unit  | D | %Rec | %Rec Limits | RPD | Limit |
|--------------------------------------|-------------|--------|-----------|-------|---|------|-------------|-----|-------|
|                                      |             | Result | Qualifier |       |   |      |             |     |       |
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 949.6  |           | mg/Kg |   | 95   | 70 - 130    | 3   | 20    |
| Diesel Range Organics (Over C10-C28) | 1000        | 1009   |           | mg/Kg |   | 101  | 70 - 130    | 5   | 20    |

| Surrogate      | LCSD      | LCSD      | Limits   |
|----------------|-----------|-----------|----------|
|                | %Recovery | Qualifier |          |
| 1-Chlorooctane | 114       |           | 70 - 130 |
| o-Terphenyl    | 116       |           | 70 - 130 |

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-120505/1-A  
 Matrix: Solid  
 Analysis Batch: 120546

Client Sample ID: Method Blank  
 Prep Type: Soluble

| Analyte  | MB     | MB        | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
|          | Result | Qualifier |      |     |       |   |          |                |         |
| Chloride | <10.0  | U         | 10.0 |     | mg/Kg |   |          | 10/06/25 14:30 | 1       |

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### QC Sample Results

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 880-120505/2-A**  
**Matrix: Solid**  
**Analysis Batch: 120546**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Soluble**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250         | 253.8      |               | mg/Kg |   | 102  | 90 - 110    |

**Lab Sample ID: LCSD 880-120505/3-A**  
**Matrix: Solid**  
**Analysis Batch: 120546**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Soluble**

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250         | 254.4       |                | mg/Kg |   | 102  | 90 - 110    | 0   | 20        |

**Lab Sample ID: 890-8900-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 120546**

**Client Sample ID: HA-12A**  
**Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 99.1          |                  | 252         | 356.3     |              | mg/Kg |   | 102  | 90 - 110    |

**Lab Sample ID: 890-8900-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 120546**

**Client Sample ID: HA-12A**  
**Prep Type: Soluble**

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 99.1          |                  | 252         | 361.3      |               | mg/Kg |   | 104  | 90 - 110    | 1   | 20        |

## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

## GC VOA

## Prep Batch: 120458

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-8900-1         | HA-3                   | Total/NA  | Solid  | 5035   |            |
| 890-8900-3         | HA-5                   | Total/NA  | Solid  | 5035   |            |
| 890-8900-4         | HA-5                   | Total/NA  | Solid  | 5035   |            |
| 890-8900-5         | HA-5                   | Total/NA  | Solid  | 5035   |            |
| 890-8900-6         | HA-12                  | Total/NA  | Solid  | 5035   |            |
| 890-8900-8         | HA-12A                 | Total/NA  | Solid  | 5035   |            |
| MB 880-120458/5-A  | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-120458/1-A | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCS 880-120458/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-8900-1 MS      | HA-3                   | Total/NA  | Solid  | 5035   |            |
| 890-8900-1 MSD     | HA-3                   | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 120601

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|--------|------------|
| MB 880-120601/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 120607

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-8900-1         | HA-3                   | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-3         | HA-5                   | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-4         | HA-5                   | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-5         | HA-5                   | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-6         | HA-12                  | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-8         | HA-12A                 | Total/NA  | Solid  | 8021B  | 120458     |
| MB 880-120458/5-A  | Method Blank           | Total/NA  | Solid  | 8021B  | 120458     |
| MB 880-120601/5-A  | Method Blank           | Total/NA  | Solid  | 8021B  | 120601     |
| LCS 880-120458/1-A | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 120458     |
| LCS 880-120458/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-1 MS      | HA-3                   | Total/NA  | Solid  | 8021B  | 120458     |
| 890-8900-1 MSD     | HA-3                   | Total/NA  | Solid  | 8021B  | 120458     |

## Analysis Batch: 120726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-8900-1    | HA-3             | Total/NA  | Solid  | Total BTEX |            |
| 890-8900-3    | HA-5             | Total/NA  | Solid  | Total BTEX |            |
| 890-8900-4    | HA-5             | Total/NA  | Solid  | Total BTEX |            |
| 890-8900-5    | HA-5             | Total/NA  | Solid  | Total BTEX |            |
| 890-8900-6    | HA-12            | Total/NA  | Solid  | Total BTEX |            |
| 890-8900-8    | HA-12A           | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Prep Batch: 120398

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------|-----------|--------|-------------|------------|
| 890-8900-1        | HA-3             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8900-3        | HA-5             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8900-4        | HA-5             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8900-5        | HA-5             | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8900-6        | HA-12            | Total/NA  | Solid  | 8015NM Prep |            |
| 890-8900-8        | HA-12A           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-120398/1-A | Method Blank     | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

## GC Semi VOA (Continued)

## Prep Batch: 120398 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| LCS 880-120398/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-120398/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 120533

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8900-1          | HA-3                   | Total/NA  | Solid  | 8015B NM | 120398     |
| 890-8900-3          | HA-5                   | Total/NA  | Solid  | 8015B NM | 120398     |
| 890-8900-4          | HA-5                   | Total/NA  | Solid  | 8015B NM | 120398     |
| 890-8900-5          | HA-5                   | Total/NA  | Solid  | 8015B NM | 120398     |
| 890-8900-6          | HA-12                  | Total/NA  | Solid  | 8015B NM | 120398     |
| 890-8900-8          | HA-12A                 | Total/NA  | Solid  | 8015B NM | 120398     |
| MB 880-120398/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 120398     |
| LCS 880-120398/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 120398     |
| LCSD 880-120398/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 120398     |

## Analysis Batch: 120687

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-8900-1    | HA-3             | Total/NA  | Solid  | 8015 NM |            |
| 890-8900-3    | HA-5             | Total/NA  | Solid  | 8015 NM |            |
| 890-8900-4    | HA-5             | Total/NA  | Solid  | 8015 NM |            |
| 890-8900-5    | HA-5             | Total/NA  | Solid  | 8015 NM |            |
| 890-8900-6    | HA-12            | Total/NA  | Solid  | 8015 NM |            |
| 890-8900-8    | HA-12A           | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 120505

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-8900-1          | HA-3                   | Soluble   | Solid  | DI Leach |            |
| 890-8900-3          | HA-5                   | Soluble   | Solid  | DI Leach |            |
| 890-8900-4          | HA-5                   | Soluble   | Solid  | DI Leach |            |
| 890-8900-5          | HA-5                   | Soluble   | Solid  | DI Leach |            |
| 890-8900-6          | HA-12                  | Soluble   | Solid  | DI Leach |            |
| 890-8900-8          | HA-12A                 | Soluble   | Solid  | DI Leach |            |
| MB 880-120505/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-120505/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-120505/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-8900-8 MS       | HA-12A                 | Soluble   | Solid  | DI Leach |            |
| 890-8900-8 MSD      | HA-12A                 | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 120546

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-8900-1          | HA-3                   | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-3          | HA-5                   | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-4          | HA-5                   | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-5          | HA-5                   | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-6          | HA-12                  | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-8          | HA-12A                 | Soluble   | Solid  | 300.0  | 120505     |
| MB 880-120505/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 120505     |
| LCS 880-120505/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 120505     |
| LCSD 880-120505/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 120505     |

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### QC Association Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

#### HPLC/IC (Continued)

#### Analysis Batch: 120546 (Continued)

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|--------|------------|
| 890-8900-8 MS  | HA-12A           | Soluble   | Solid  | 300.0  | 120505     |
| 890-8900-8 MSD | HA-12A           | Soluble   | Solid  | 300.0  | 120505     |

- 1
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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-3**

**Lab Sample ID: 890-8900-1**

Date Collected: 10/01/25 09:00

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 00:18       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 00:18       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 04:49       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 04:49       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 120546       | 10/06/25 15:40       | CS      | EET MID |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-3**

Date Collected: 10/01/25 09:20

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 00:58       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 00:58       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 05:04       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 05:04       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 120546       | 10/06/25 15:46       | CS      | EET MID |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-4**

Date Collected: 10/01/25 09:25

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 01:19       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 01:19       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 05:17       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 05:17       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 10         |                |              | 120546       | 10/06/25 15:52       | CS      | EET MID |

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-5**

Date Collected: 10/01/25 09:30

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 01:39       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 01:39       | SA      | EET MID |

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### Lab Chronicle

Client: Earth Systems Response and Restoration  
 Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
 SDG: Eddy County, NM

**Client Sample ID: HA-5**

**Lab Sample ID: 890-8900-5**

Date Collected: 10/01/25 09:30

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 05:32       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 05:32       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 120546       | 10/06/25 15:58       | CS      | EET MID |

**Client Sample ID: HA-12**

**Lab Sample ID: 890-8900-6**

Date Collected: 10/01/25 09:50

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 02:00       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 02:00       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 05:46       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 05:46       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 120546       | 10/06/25 16:04       | CS      | EET MID |

**Client Sample ID: HA-12A**

**Lab Sample ID: 890-8900-8**

Date Collected: 10/01/25 10:00

Matrix: Solid

Date Received: 10/01/25 16:25

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 120458       | 10/03/25 11:53       | AA      | EET MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 120607       | 10/08/25 02:20       | MNR     | EET MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 120726       | 10/08/25 02:20       | SA      | EET MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 120687       | 10/07/25 06:00       | SA      | EET MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 120398       | 10/03/25 08:13       | EL      | EET MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          | 1 uL           | 1 uL         | 120533       | 10/07/25 06:00       | FC      | EET MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 120505       | 10/06/25 08:30       | SI      | EET MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 120546       | 10/06/25 16:10       | CS      | 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: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

#### Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400            | 06-30-26        |

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

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

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### Method Summary

Client: Earth Systems Response and Restoration  
Project/Site: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy 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: Ross Draw Unit #044H

Job ID: 890-8900-1  
SDG: Eddy County, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-8900-1    | HA-3             | Solid  | 10/01/25 09:00 | 10/01/25 16:25 | 6     |
| 890-8900-3    | HA-5             | Solid  | 10/01/25 09:20 | 10/01/25 16:25 | 6     |
| 890-8900-4    | HA-5             | Solid  | 10/01/25 09:25 | 10/01/25 16:25 | 8     |
| 890-8900-5    | HA-5             | Solid  | 10/01/25 09:30 | 10/01/25 16:25 | 10    |
| 890-8900-6    | HA-12            | Solid  | 10/01/25 09:50 | 10/01/25 16:25 | 6     |
| 890-8900-8    | HA-12A           | Solid  | 10/01/25 10:00 | 10/01/25 16:25 | 6     |

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8900-1  
SDG Number: Eddy County, NM

**Login Number: 8900**  
**List Number: 1**  
**Creator: Lopez, Abraham**

**List Source: Eurofins Carlsbad**

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

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### Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8900-1  
SDG Number: Eddy County, NM

**Login Number: 8900**  
**List Number: 2**  
**Creator: Laing, Edmundo**

**List Source: Eurofins Midland**  
**List Creation: 10/03/25 09:52 AM**

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

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

QUESTIONS

Action 542528

**QUESTIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2508325453                                     |
| Incident Name        | NAPP2508325453 ROSS DRAW UNIT #044H @ 30-015-41580 |
| Incident Type        | Oil Release  |
| Incident Status      | Remediation Plan Received                          |
| Incident Well        | [30-015-41580] ROSS DRAW UNIT #044H                |

|   |                      |
|---|----------------------|
| <b>Location of Release Source</b>                     |                      |
| <i>Please answer all the questions in this group.</i> |                      |
| Site Name   | ROSS DRAW UNIT #044H |
| Date Release Discovered                               | 03/20/2025           |
| Surface Owner   | Federal              |

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

|   |   |
|---|---|
| <b>Nature and Volume of Release</b>   |   |
| <i>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.</i> |   |
| Crude Oil Released (bbls) Details   | Cause: Equipment Failure   Pump   Crude Oil   Released: 15 BBL   Recovered: 15 BBL   Lost: 0 BBL. |
| Produced Water Released (bbls) Details  | Not answered.   |
| Is the concentration of chloride in the produced water >10,000 mg/l   | Yes   |
| Condensate Released (bbls) Details  | Not answered.   |
| Natural Gas Vented (Mcf) Details  | Not answered.   |
| Natural Gas Flared (Mcf) Details  | Not answered.   |
| Other Released Details  | Not answered.   |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)  | Not answered.   |

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QUESTIONS, Page 2

Action 542528

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

|   |  |
|---|--|
| <b>Nature and Volume of Release (continued)</b>   |  |
| Is this a gas only submission (i.e. only significant Mcf values reported)               | <b>No, according to supplied volumes this does not appear to be a "gas only" report.</b> |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                  | <b>No</b>  |
| Reasons why this would be considered a submission for a notification of a major release | <i>Unavailable.</i>  |

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

|  |  |
|--|--|
| The source of the release has been stopped   | <b>True</b>  |
| The impacted area has been secured to protect human health and the environment                                     | <b>True</b>  |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | <b>True</b>  |
| All free liquids and recoverable materials have been removed and managed appropriately                             | <b>True</b>  |
| If all the actions described above have not been undertaken, explain why   | <b>Tank overflow due to failure of water transfer pump to operate. Allowed approx. 15 bbls to overflow to lined secondary containment.</b> |

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: James Raley<br>Title: EHS Professional<br>Email: jim.raley@dvn.com<br>Date: 01/14/2026 |
|--|--|

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QUESTIONS, Page 3

Action 542528

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

**Site Characterization**  
*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|  |                                |
|--|--------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.)      |
| What method was used to determine the depth to ground water  | Attached Document              |
| Did this release impact groundwater or surface water   | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                |
| A continuously flowing watercourse or any other significant watercourse  | Between 1000 (ft.) and ½ (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  | Between 1 and 5 (mi.)          |
| Any other fresh water well or spring   | Between 1 and 5 (mi.)          |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)           |
| A wetland  | Between 1000 (ft.) and ½ (mi.) |
| A subsurface mine  | Greater than 5 (mi.)           |
| An (non-karst) unstable area   | Between 1000 (ft.) and ½ (mi.) |
| Categorize the risk of this well / site being in a karst geology   | Low                            |
| A 100-year floodplain  | Greater than 5 (mi.)           |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                             |

**Remediation Plan**  
*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|  |     |
|--|-----|
| Requesting a remediation plan approval with this submission  | Yes |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i> |     |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes |
| Was this release entirely contained within a lined containment area  | No  |

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

|   |      |
|---|------|
| Chloride (EPA 300.0 or SM4500 Cl B)         | 3200 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0    |
| GRO+DRO (EPA SW-846 Method 8015M)           | 0    |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 0    |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0    |

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

|   |            |
|---|------------|
| On what estimated date will the remediation commence                        | 03/01/2026 |
| On what date will (or did) the final sampling or liner inspection occur     | 03/05/2026 |
| On what date will (or was) the remediation complete(d)                      | 04/01/2026 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 0          |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 0          |
| What is the estimated surface area (in square feet) that will be remediated | 4097       |
| What is the estimated volume (in cubic yards) that will be remediated       | 30         |

*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 542528

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.) | Yes  |
| Which OCD approved facility will be used for <b>off-site</b> disposal                 | fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal     | Not answered.                                |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state              | Not answered.                                |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility          | Not answered.                                |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)         | Not answered.                                |
| (In Situ) Soil Vapor Extraction   | Not answered.                                |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)     | Not answered.                                |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                    | Not answered.                                |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)              | Not answered.                                |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                      | Not answered.                                |
| OTHER (Non-listed remedial process)   | Not answered.                                |

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

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

|  |  |
|--|--|
| I hereby agree and sign off to the above statement | Name: James Raley<br>Title: EHS Professional<br>Email: jim.raley@dvn.com<br>Date: 01/14/2026 |
|--|--|

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 5

Action 542528

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

|   |    |
|---|----|
| <b>Deferral Requests Only</b>   |    |
| <i>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.</i> |    |
| Requesting a deferral of the remediation closure due date with the approval of this submission  | No |

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<https://www.emnrd.nm.gov/oecd/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 6

Action 542528

**QUESTIONS (continued)**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
|  | Action Number:<br>542528   |
|  | Action Type:<br>[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

**QUESTIONS**

| <b>Sampling Event Information</b>   |                   |
|---|-------------------|
| Last sampling notification (C-141N) recorded  | <b>475602</b>     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | <b>06/20/2025</b> |
| What was the (estimated) number of samples that were to be gathered                             | <b>30</b>         |
| What was the sampling surface area in square feet   | <b>6068</b>       |

**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 | <b>No</b> |
|--|-----------|

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

General Information  
Phone: (505) 629-6116

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CONDITIONS

Action 542528

**CONDITIONS**

|  |  |
|--|--|
| Operator:<br>WPX Energy Permian, LLC<br>Devon Energy - Regulatory<br>Oklahoma City, OK 73102 | OGRID:<br>246289   |
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**CONDITIONS**

| Created By    | Condition   | Condition Date |
|---------------|---|----------------|
| scott.rodgers | The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Confirmation samples should be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been reviewed. | 1/29/2026      |