

## SITE INFORMATION

### Report Type: Closure Report (2RP-4713)

#### General Site Information:

|                             |                         |         |       |           |  |  |
|-----------------------------|-------------------------|---------|-------|-----------|--|--|
| Site:                       | Sosa Federal #1 Battery |         |       |           |  |  |
| Company:                    | EOG Resources           |         |       |           |  |  |
| Section, Township and Range | Unit O                  | Sec. 15 | T 26S | R 29E     |  |  |
| County:                     | Eddy County, NM         |         |       |           |  |  |
| GPS:                        | 32.03570                |         |       | -103.9685 |  |  |
| Surface Owner:              | BLM                     |         |       |           |  |  |

#### Release Data:

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Date Released:</b>           | 10/24/2017                      |
| <b>Type Release:</b>            | Oil and Produced Water          |
| <b>Source of Contamination:</b> | Production line flange          |
| <b>Fluid Released:</b>          | 100 bbls. of Oil/Produced Water |
| <b>Fluids Recovered:</b>        | 95 bbls. of Oil/Produced Water  |

#### Official Communication:

|                      |                                                                                    |  |                                                                                  |
|----------------------|------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|
| <b>Name:</b>         | James Kennedy                                                                      |  | Clair Gonzales                                                                   |
| <b>Company:</b>      | EOG Resources                                                                      |  | Tetra Tech                                                                       |
| <b>Address:</b>      | 5509 Champions Dr                                                                  |  | 901 West Wall Street                                                             |
|                      |                                                                                    |  | Suite 100                                                                        |
| <b>City:</b>         | Midland, TX 79706                                                                  |  | Midland, Texas 79701                                                             |
| <b>Phone number:</b> | 432-686-7016                                                                       |  | 432-687-8634                                                                     |
| <b>Fax:</b>          |                                                                                    |  |                                                                                  |
| <b>Email:</b>        | <a href="mailto:James.Kennedy@eogresources.com">James.Kennedy@eogresources.com</a> |  | <a href="mailto:clair.gonzales@tetrattech.com">clair.gonzales@tetrattech.com</a> |

#### Site Characterization

|                              |                                |
|------------------------------|--------------------------------|
| <b>Depth to Groundwater:</b> | 50' below ground surface (bgs) |
| <b>Karst Potential:</b>      | Medium                         |

#### Recommended Remedial Action Levels (RRALs)

| Benzene  | Total BTEX | TPH (GRO+DRO+MRO) | Chlorides |
|----------|------------|-------------------|-----------|
| 10 mg/kg | 50 mg/kg   | 100 mg/kg         | 600 mg/kg |



June 1, 2021

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Re: Closure Report  
EOG Resources  
Sosa Federal #1 Battery  
Unit O, Section 15, Township 26 South, Range 29 East  
Eddy County, New Mexico  
2RP-4713**

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release at the EOG Sosa Federal #1 Battery (API No. 30-015-26087). The release footprint is located in the Public Land Survey System (PLSS) Unit O, Section 15, Township 26 South, Range 29 East, Eddy County, New Mexico (Site). The Site coordinates are 32.0357°, -103.9685°. The site location is shown on Figures 1 and 2.

## Background

According to the State of New Mexico C-141 Initial Report, the release occurred on October 24, 2017 as a result of a loose production line flange. The release consisted of 100 barrels (bbls.) of free fluids affecting the area inside the earth berm. During immediate response, a vacuum truck recovered 95 bbls. of free fluids and maintenance crew made repairs to the equipment. The initial C-141 report was submitted on October 26, 2017 to the New Mexico Oil Conservation District (NMOCD). The release was subsequently assigned the Remediation Permit (RP) number 2RP-4713. The C-141 forms are included in Appendix A.

## Site Characterization

A site characterization was performed for the site, and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a medium karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 23, approximately 0.8 mile southeast of the site, and has a reported depth to groundwater of 80.88 feet (ft.) below ground surface (bgs.), the well was last sampled in 1987. In addition, according to the New Mexico Office of the State Engineer, there are no water wells within 800 meters (½ miles) radius. However, there are six (6) water wells located within 6,000 meters (approximately 3.7 miles) of the Site. The average depth to groundwater is 51 ft. bgs. Site characterization data is included in Appendix B.

Tetra Tech

901 West Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



## Regulatory

A risk-based evaluation was performed for the site per the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

## Soil Assessment and Analytical Results

On April 22, 2021, Tetra Tech personnel were on site to evaluate and sample the release area. The formerly impacted area was identified from the description in the C-141 and the aerial imagery. Soils were field screened for salinity using an Extech EC400 ExStik to determine sampling intervals. A total of five (5) auger holes (AH-1 through AH-5) were advanced inside the release footprint to a total depth from surface to 1 ft, 3.5 ft, and 6.5 ft. bgs. A total of fourteen (14) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3. Photographic documentation is included.

Referring to Table 1, all the samples analyzed exceeded the Site RRAL for chloride (600 mg/kg) and TPH (100 mg/kg). In addition, all the samples were below the Site RRAL for BTEX (50 mg/kg) and benzene (10 mg/kg).

## Remediation Activities

On May 20, 2021, Tetra Tech personnel were on-site to supervise the excavation and remediation activities in order to remove the impacted soil from the release area. All the tanks, vessels, and equipment were removed from the area. The impacted areas were excavated to the appropriate depths ranging in total depths of 5 ft. to 17 ft. bgs. The excavated areas are shown in Figure 4. Once the excavations were completed, confirmation samples were collected every 200 sq. ft. Sixteen (16) bottom holes (BH-1 through BH-16), sixteen (16) sidewalls (SW-1 through SW-16) and two (2) internal sidewalls (ISW-1 and ISW-2) were collected in the excavated areas. A total of thirty-four (34) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 2.

On May 25, 2021, Tetra Tech returned to the site to supervise additional excavation work at the sidewall (SW-7). The sample location (SW-7) was extended 5 ft. to the east. One (1) sample was collected and analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 2.



Referring to Table 2, all the sample confirmations were below the Site RRALs for chloride (600 mg/kg), TPH (100 mg/kg) and BTEX (50 m/kg) and benzene (10 mg/kg).

The excavations were all backfilled with clean soil material. Approximately 1,478 cubic yards of material was transported offsite for proper disposal.

### **Conclusion**

Based on the laboratory results and site assessment activities performed, EOG requests closure of this spill issue. The final C-141 initial reports are enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

*Paula Tocora Alonso*

Paula Tocora Alonso  
Environmental Engineer I  
Tetra Tech, Inc



## Figures



 SITE LOCATION



0 2.5 5  
Miles  
Approximate Scale in Miles

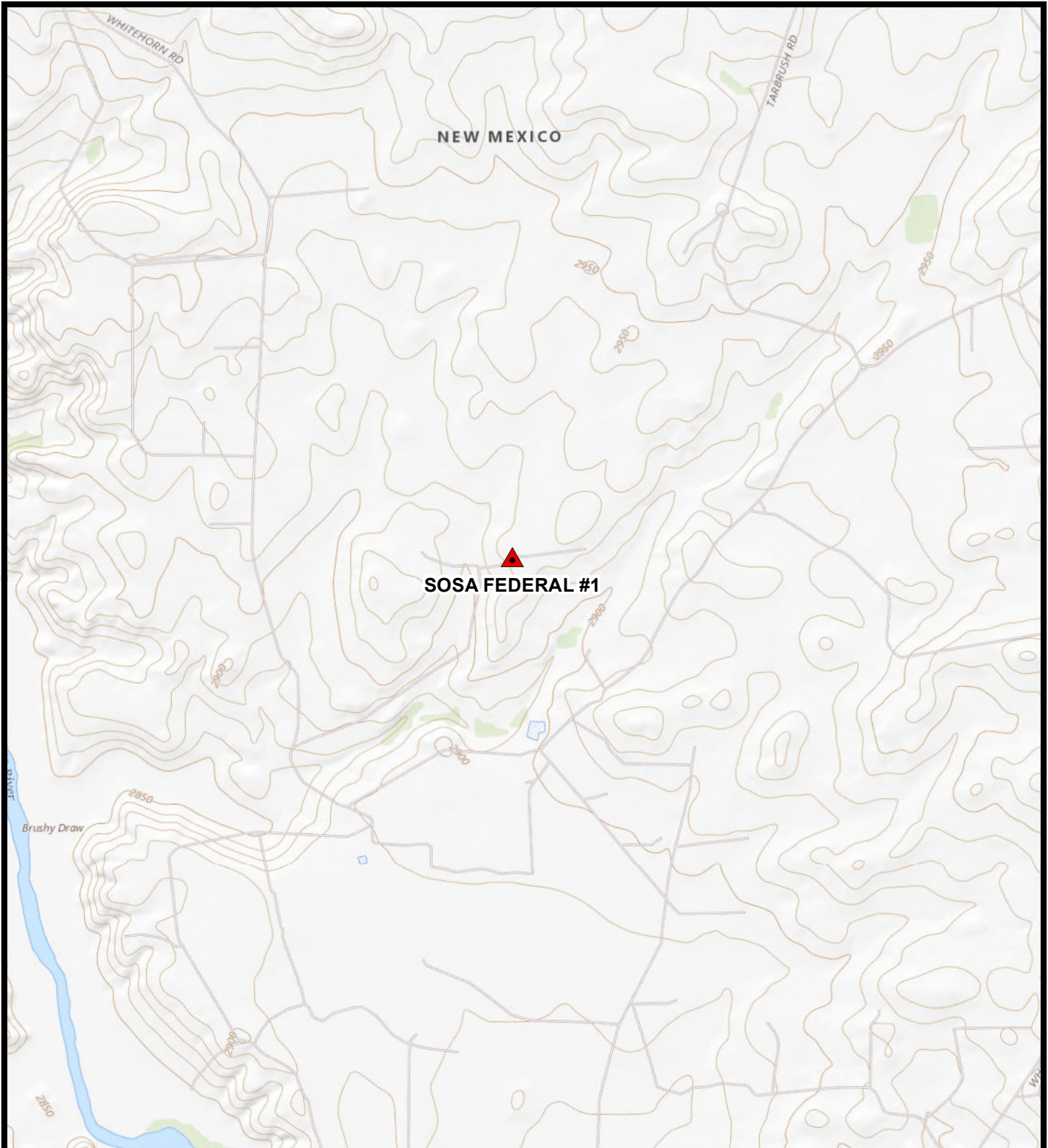
OVERVIEW MAP  
SOSA FEDERAL #1  
Property Located at coordinates 32.0357°, -103.9685°  
EDDY COUNTY, NEW MEXICO



Project #:  
212C-MD-02419

FIGURE  
1

Source: ESRI Basemap - Streets, 2021.



 SITE LOCATION



0 1,000 2,000  
Feet  
Approximate Scale in Feet

TOPOGRAPHIC MAP  
SOSA FEDERAL #1  
Property Located at coordinates 32.0357°, -103.9685°  
EDDY COUNTY, NEW MEXICO



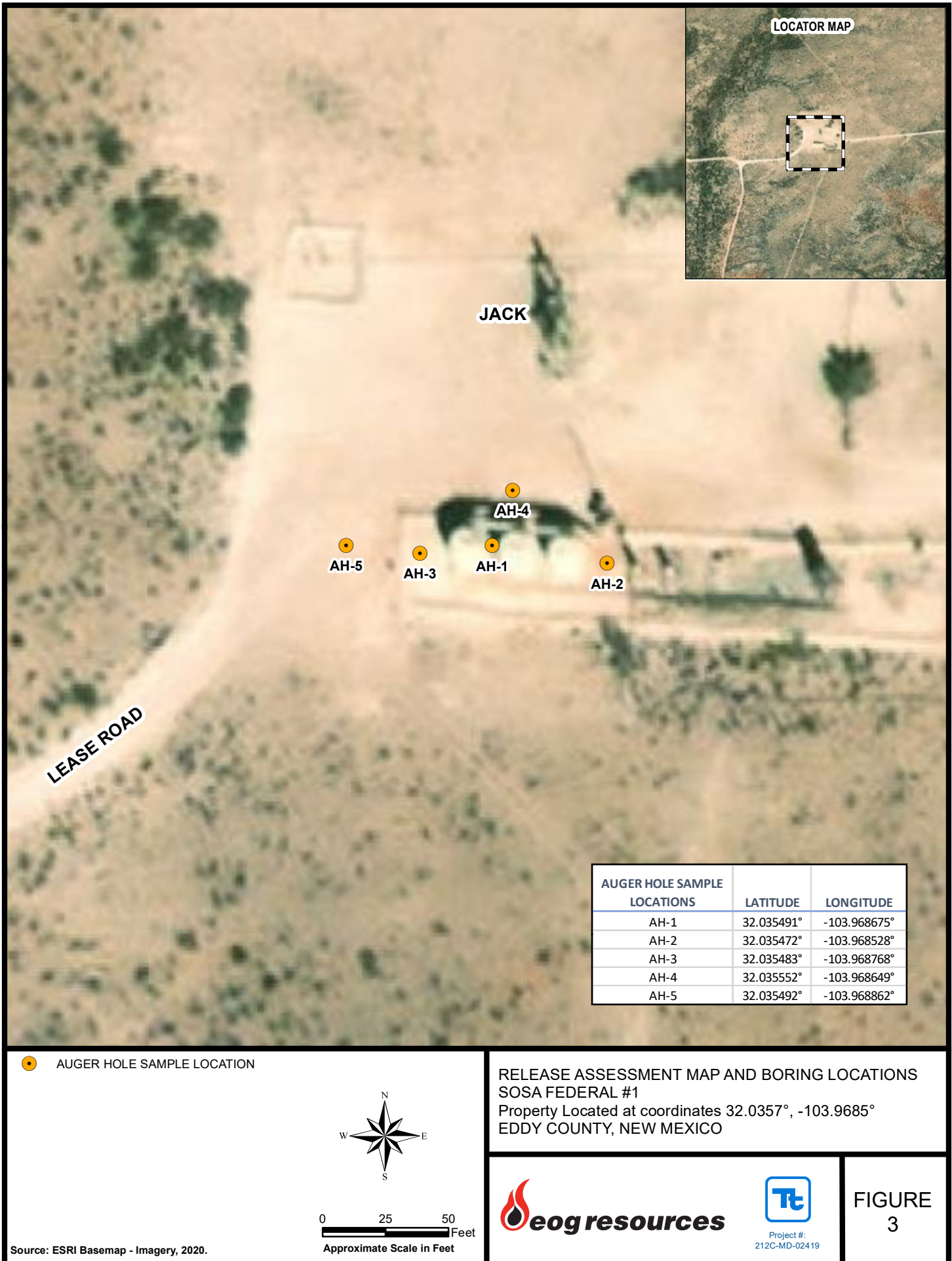
Project #:  
212C-MD-02419

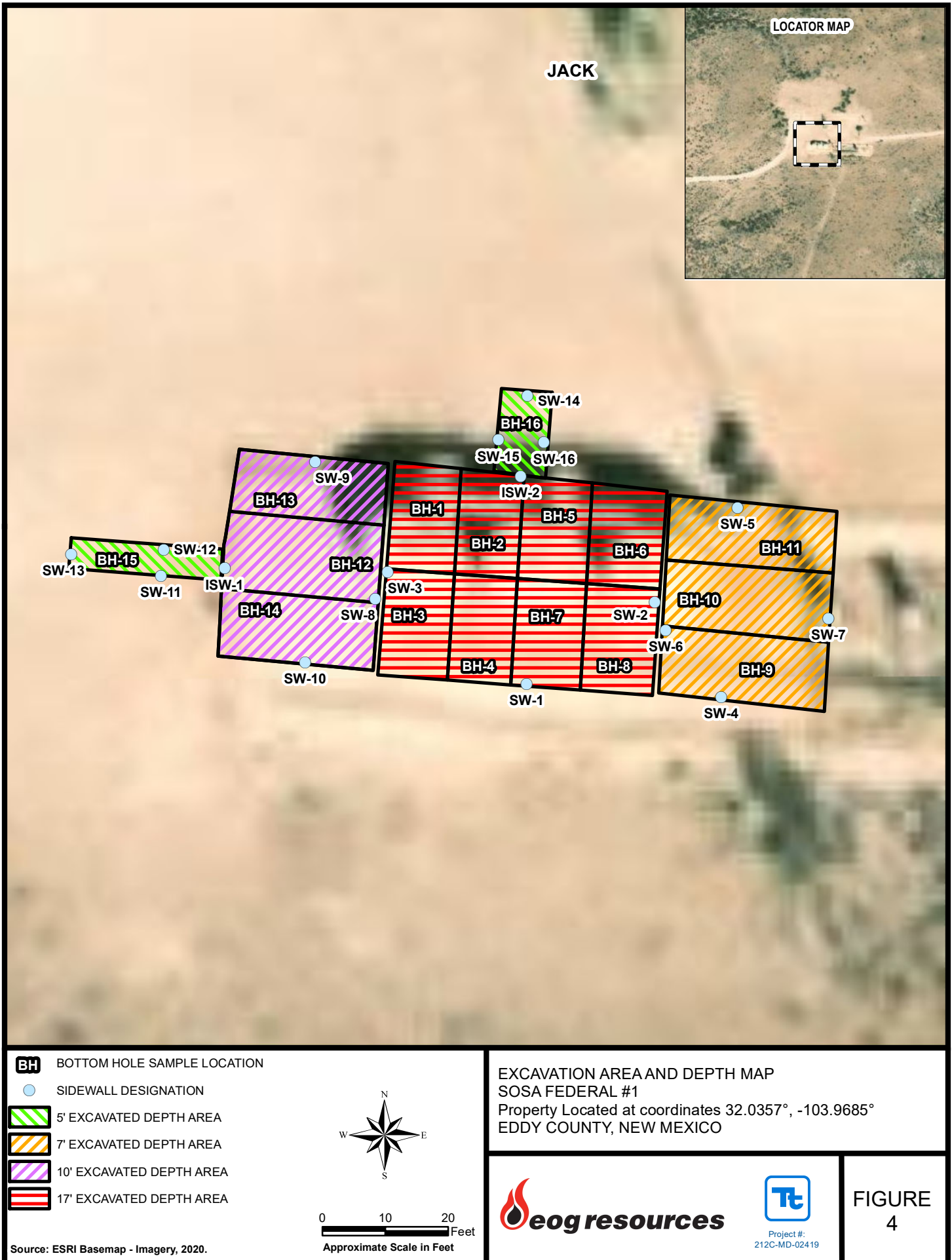
FIGURE  
2

Source: USGS, The National Map,  
Topo Base, 2021.

C:\GIS\EOG Resources\212C-MD-02419\_SOSA\_FEDERAL\212C-MD-02419\_SOSA\_FEDERAL\_1\_FIG2.mxd 5/27/2021 jol.johns







## Tables

**Table 1**  
**EOG**  
**Sosa Federal #1**  
**Eddy County, New Mexico**

| Sample ID   | Sample Date | Sample Depth (ft) | Soil Status |         | TPH (mg/kg) |              |              |              | Benzene (mg/kg)    | Toluene (mg/kg)    | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|-------------|-------------|-------------------|-------------|---------|-------------|--------------|--------------|--------------|--------------------|--------------------|----------------------|----------------|--------------------|------------------|
|             |             |                   | In-Situ     | Removed | GRO         | DRO          | MRO          | Total        |                    |                    |                      |                |                    |                  |
| <b>AH-1</b> | 4/22/2021   | 0-1               | X           | -       | <250        | <b>2,220</b> | <b>714</b>   | <b>2,930</b> | 0.0062             | <0.00200           | 0.0431               | 0.0192         | 0.0685             | <b>1,240</b>     |
|             | "           | 1-1.5             | X           | -       | 253         | <b>1,730</b> | <b>507</b>   | <b>2,490</b> | <0.000000000000199 | <0.000000000000199 | 0.0000               | 0.0000         | 0.0000             | <b>1,980</b>     |
|             | "           | 2-2.5             | X           | -       | 1,290       | <b>4,300</b> | <b>1,130</b> | <b>6,720</b> | 0.0386             | 0.0213             | 0.0496               | 0.2260         | 0.3360             | <b>2,300</b>     |
|             | "           | 3-3.5             | X           | -       | 343         | <b>1,350</b> | <b>351</b>   | <b>2,040</b> | 0.0097             | 0.0127             | 0.0423               | 0.0900         | 0.1550             | <b>2,300</b>     |
|             | "           | 4-4.5             | X           | -       | <50.0       | <b>246</b>   | <b>62</b>    | <b>308</b>   | 0.0054             | <0.00199           | <0.00199             | 0.0124         | 0.0178             | <b>2,140</b>     |
|             | "           | 5-5.5             | X           | -       | <50.0       | <b>207</b>   | <b>52</b>    | <b>259</b>   | <0.00200           | <0.00200           | <0.00200             | <0.00400       | <0.00400           | <b>1,780</b>     |
|             | "           | 6-6.5             | X           | -       | <50.0       | <b>58</b>    | <50.0        | <b>57.6</b>  | <0.00201           | <0.00201           | <0.00201             | <0.00402       | <0.00402           | <b>1,430</b>     |
| <b>AH-2</b> | 4/22/2021   | 0-1               | X           | -       | <249        | <b>2,590</b> | <b>598</b>   | <b>3,190</b> | <0.00202           | <0.00202           | <0.00202             | <0.00403       | <0.00403           | <b>4,040</b>     |
| <b>AH-3</b> | 4/22/2021   | 0-1               | X           | -       | <250        | <b>2,090</b> | <b>525</b>   | <b>2,620</b> | <0.00199           | <0.00199           | <0.00199             | <0.00398       | <0.00398           | <b>1,380</b>     |
|             | "           | 1-1.5             | X           | -       | <250        | <b>1,200</b> | <b>385</b>   | <b>1,590</b> | <0.00198           | <0.00198           | <0.00198             | <0.00396       | <0.00396           | <b>1,260</b>     |
|             | "           | 2-2.5             | X           | -       | <249        | <b>1,580</b> | <b>394</b>   | <b>1,970</b> | <0.00200           | <0.00200           | <0.00200             | <0.00399       | <0.00399           | <b>1,140</b>     |
|             | "           | 3-3.5             | X           | -       | <249        | <b>1,630</b> | <b>427</b>   | <b>2,060</b> | <0.00200           | <0.00200           | <0.00200             | <0.00400       | <0.00400           | <b>1,410</b>     |
| <b>AH-4</b> | 4/22/2021   | 0-1               | X           | -       | <49.9       | <b>316</b>   | <b>97.7</b>  | <b>414</b>   | <0.00200           | <0.00200           | <0.00200             | <0.00400       | <0.00400           | <b>4,750</b>     |
| <b>AH-5</b> | 4/22/2021   | 0-1               | X           | -       | <49.9       | <49.9        | <49.9        | <49.9        | <0.00198           | <0.00198           | <0.00198             | <0.00396       | <0.00396           | <b>1,250</b>     |

(-)

Not Analyzed  
Exceeded RRALs

Table 2  
EOG  
Sosa Federal #1  
Eddy County, NM

| Sample ID | Sample Date | Sample Depth (ft) | BEB Sample Depth (ft) | Soil Status |         | TPH (mg/kg) |       |       |       | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|-----------|-------------|-------------------|-----------------------|-------------|---------|-------------|-------|-------|-------|-----------------|-----------------|----------------------|----------------|--------------------|------------------|
|           |             |                   |                       | In-Situ     | Removed | GRO         | DRO   | ORO   | Total |                 |                 |                      |                |                    |                  |
| BH-1      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 26.5             |
| BH-2      | 5/20/2021   | -                 | 17                    | X           | -       | <49.8       | <49.8 | <49.8 | <49.8 | <0.00200        | <0.00200        | <0.00200             | <0.00400       | <0.00400           | 30.6             |
| BH-3      | 5/20/2021   | -                 | 17                    | X           | -       | <49.8       | <49.8 | <49.8 | <49.8 | <0.00200        | <0.00200        | <0.00200             | <0.00399       | <0.00399           | 24.3             |
| BH-4      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 36.7             |
| BH-5      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 34.3             |
| BH-6      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00202        | <0.00202        | <0.00202             | <0.00404       | <0.00404           | 27.1             |
| BH-7      | 5/20/2021   | -                 | 17                    | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00200        | <0.00200        | <0.00200             | <0.00400       | <0.00400           | 31.4             |
| BH-8      | 5/20/2021   | -                 | 17                    | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 27.1             |
| BH-9      | 5/20/2021   | -                 | 7                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 16.3             |
| BH-10     | 5/20/2021   | -                 | 7                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 18.9             |
| BH-11     | 5/20/2021   | -                 | 7                     | X           | -       | <49.8       | <49.8 | <49.8 | <49.8 | <0.00200        | <0.00200        | <0.00200             | <0.00399       | <0.00399           | 94.3             |
| BH-12     | 5/20/2021   | -                 | 10                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00200        | <0.00200        | <0.00200             | <0.00400       | <0.00400           | 22.5             |
| BH-13     | 5/20/2021   | -                 | 10                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 23.9             |
| BH-14     | 5/20/2021   | -                 | 10                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00198        | <0.00198        | <0.00198             | <0.00397       | <0.00397           | 24.1             |
| BH-15     | 5/20/2021   | -                 | 5                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198        | <0.00198        | <0.00198             | <0.00397       | <0.00397           | 22.4             |
| BH-16     | 5/20/2021   | -                 | 5                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 21.4             |
| ISW-1     | 5/20/2021   | -                 | 5                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00198        | <0.00198        | <0.00198             | <0.00397       | <0.00397           | 23.0             |
| ISW-2     | 5/20/2021   | -                 | 5                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201        | <0.00201        | <0.00201             | <0.00402       | <0.00402           | 13.9             |
| SW-1      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 184              |
| SW-2      | 5/20/2021   | -                 | 17                    | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | 0.00208         | <0.00202        | <0.00202             | <0.00404       | <0.00404           | 178              |
| SW-3      | 5/20/2021   | -                 | 17                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00200        | <0.00200        | <0.00200             | <0.00399       | <0.00399           | 75.3             |
| SW-4      | 5/20/2021   | -                 | 7                     | X           | -       | <49.8       | 54.2  | <49.8 | 54.2  | <0.00200        | <0.00200        | <0.00200             | <0.00401       | <0.00401           | 11.5             |
| SW-5      | 5/20/2021   | -                 | 7                     | X           | -       | <49.8       | <49.8 | <49.8 | <49.8 | <0.00200        | <0.00200        | <0.00200             | <0.00401       | <0.00401           | 13.8             |
| SW-6      | 5/20/2021   | -                 | 7                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 12.2             |
| SW-7      | 5/20/2021   | -                 | 7                     | X           | -       | 305         | <49.9 | <49.9 | 305   | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 44.1             |
| SW-7      | 5/25/2021   | -                 | 7                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | <5.05            |
| SW-8      | 5/20/2021   | -                 | 10                    | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00200        | <0.00200        | <0.00200             | <0.00400       | <0.00400           | 32.4             |
| SW-9      | 5/20/2021   | -                 | 10                    | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 36.9             |
| SW-10     | 5/20/2021   | -                 | 10                    | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198        | <0.00198        | <0.00198             | <0.00396       | <0.00396           | 41.2             |
| SW-11     | 5/20/2021   | -                 | 5                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00201        | <0.00201        | <0.00201             | <0.00402       | <0.00402           | 33.3             |
| SW-12     | 5/20/2021   | -                 | 5                     | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00398       | <0.00398           | 57.9             |
| SW-13     | 5/20/2021   | -                 | 5                     | X           | -       | <49.8       | <49.8 | <49.8 | <49.8 | <0.00198        | <0.00198        | <0.00198             | <0.00397       | <0.00397           | 44.7             |
| SW-14     | 5/20/2021   | -                 | 5                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00201        | <0.00201        | <0.00201             | <0.00402       | <0.00402           | 41.7             |
| SW-15     | 5/20/2021   | -                 | 5                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00200        | <0.00200        | <0.00200             | <0.00400       | <0.00400           | 52.9             |
| SW-16     | 5/20/2021   | -                 | 5                     | X           | -       | <49.9       | <49.9 | <49.9 | <49.9 | <0.00202        | <0.00202        | <0.00202             | <0.00403       | <0.00403           | 51.5             |

(-) Not Analyzed  
Excavated



## Photos

EOG Resources  
Sosa Federal #1 Battery  
Eddy County, New Mexico



TETRA TECH



View of Release Area – View West



View of Release Area – View Northeast/East



EOG Resources  
Sosa Federal #1 Battery  
Eddy County, New Mexico



TETRA TECH



View of Remediation Activities – East View



View of Release Area – View Northwest

## Appendix A



District I  
1625 N French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

NAB1811352263

## OPERATOR

☒ Initial Report ☐ Final Report

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Name of Company EOG Resources, Inc. 25575       | Contact Jamon Hohensee      |
| Address 5509 Champions Drive, Midland, TX 79706 | Telephone No. 432-556-8074  |
| Facility Name Sosa Federal #1 Battery           | Facility Type active well   |
| Surface Owner BLM                               | Mineral Owner EOG Resources |
| API No. 30-015-26087                            |                             |

## LOCATION OF RELEASE

|                  |               |                 |              |                      |                       |                       |                     |                |
|------------------|---------------|-----------------|--------------|----------------------|-----------------------|-----------------------|---------------------|----------------|
| Unit Letter<br>O | Section<br>15 | Township<br>26S | Range<br>29E | Feet from the<br>330 | North/South Line<br>S | Feet from the<br>1700 | East/West Line<br>E | County<br>Eddy |
|------------------|---------------|-----------------|--------------|----------------------|-----------------------|-----------------------|---------------------|----------------|

Latitude 32.0357 Longitude -103.9685

## NATURE OF RELEASE

|                                                                                                                                          |                                           |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|
| Type of Release Crude Oil and PW                                                                                                         | Volume of Release 100 bbls                | Volume Recovered 95 bbls                    |
| Source of Release Loose flange on production line                                                                                        | Date and Hour of Occurrence<br>10-24-17   | Date and Hour of Discovery<br>10-24-17, 9am |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          |                                             |
| By Whom?                                                                                                                                 | Date and Hour                             |                                             |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse. |                                             |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

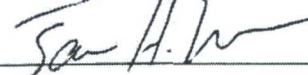
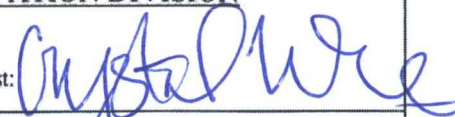
Lease operator arrived on location on 10-24-17 and noticed the water tank was stained with oil and noted production line flange was loose. Observed PW and oil inside earth berm. Vacuum trucks were immediately called to pick up fluids. No fluids migrated out of berm. Well was shut in and crews were called out to make repairs.

Describe Area Affected and Cleanup Action Taken.\*

Release was contained inside earth berm around PW and oil tanks. No fluids migrated out of the containment. Vacuum trucks recovered standing fluids and maintenance crew made repairs to equipment. A 3<sup>rd</sup> party consultant will assess the site and delineate the impacted soils. Any contaminated material removed will be disposed of at an approved disposal facility.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

## OIL CONSERVATION DIVISION

|                                                                                                |                                                                                                                             |                      |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|
| Signature:  | Approved by Environmental Specialist:  |                      |
| Printed Name: Jamon Hohensee                                                                   | Approval Date: 4/23/18                                                                                                      | Expiration Date: N/A |
| Title: Environmental Representative                                                            | Conditions of Approval: see attached                                                                                        |                      |
| E-mail Address: jamon_hohensee@eogresources.com                                                | Attached <input checked="" type="checkbox"/> 4713                                                                           |                      |
| Date: 10-26-17                                                                                 | Phone: 432-556-8074                                                                                                         |                      |

\* Attach Additional Sheets If Necessary

4/23/18 AB



|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Site Assessment/Characterization

*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?                                                                                                           | _____ (ft bgs)                                           |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist: Each of the following items must be included in the report.**

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

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.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: James F. Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |               |
|----------------|---------------|
| Incident ID    | nAB1811352263 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: James F. Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

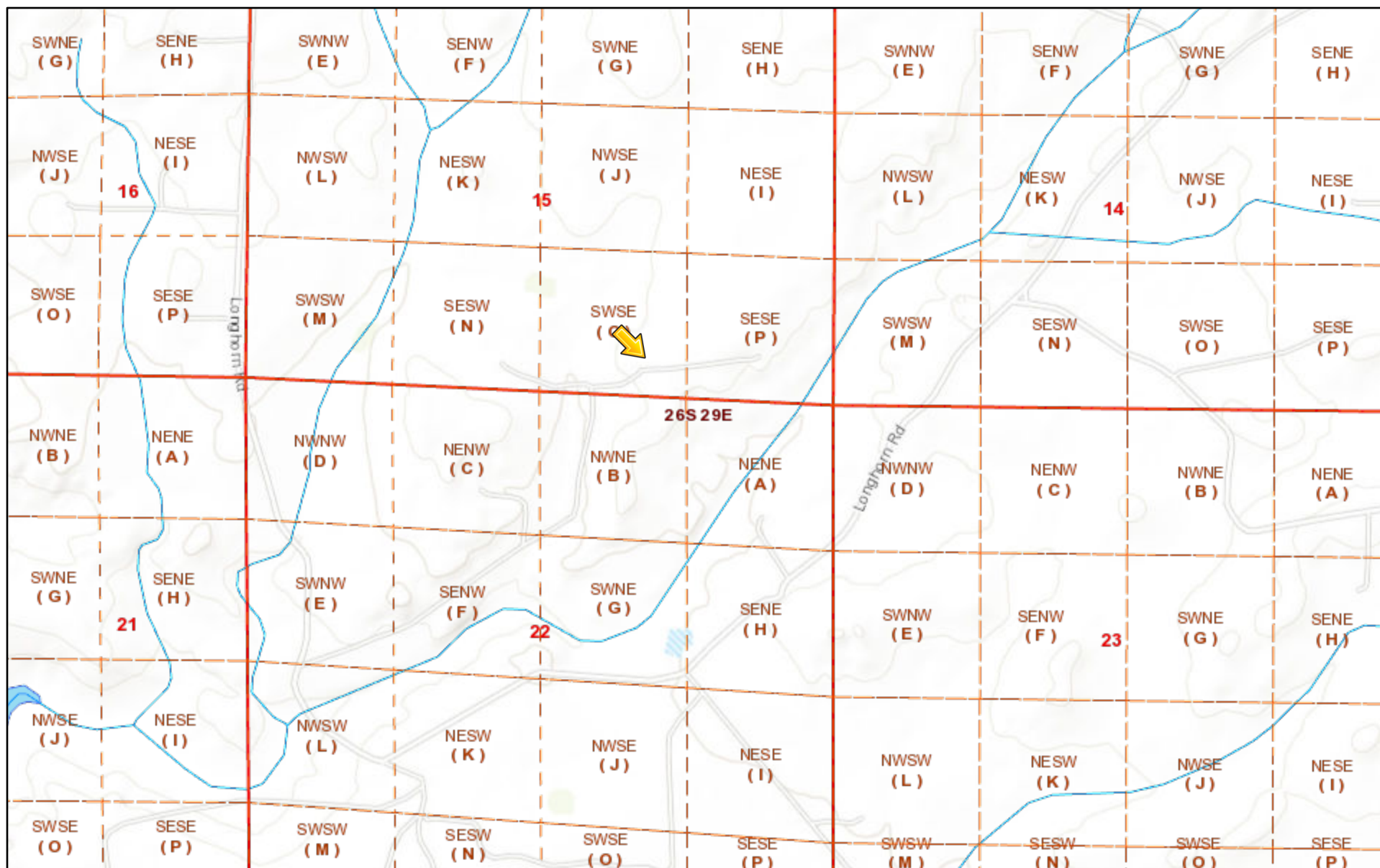
Closure Approved by: Bradford Billings Date: 11/02/2021

Printed Name: Bradford Billings Title: Envi.Spec.A

## Appendix B



2RP-4713



4/22/2021, 11:39:55 AM



Override 1



OCD District Offices

PLSS First Division

PLSS Townships

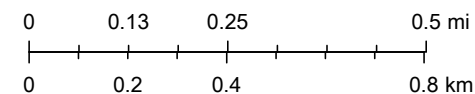
PLSS Second Division

OSE Water-bodies

PLJV Probable Playas

OSE Streams

1:18,056



Bureau of Land Management, Texas Parks &amp; Wildlife, Esri, HERE, Garmin,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

Sosa Fed #1 Battery

2RP-4713

Legend

- High
- Low
- Medium
- Sosa Federal #1 Battery

Sosa Federal #1 Battery

285

Pecos Hwy

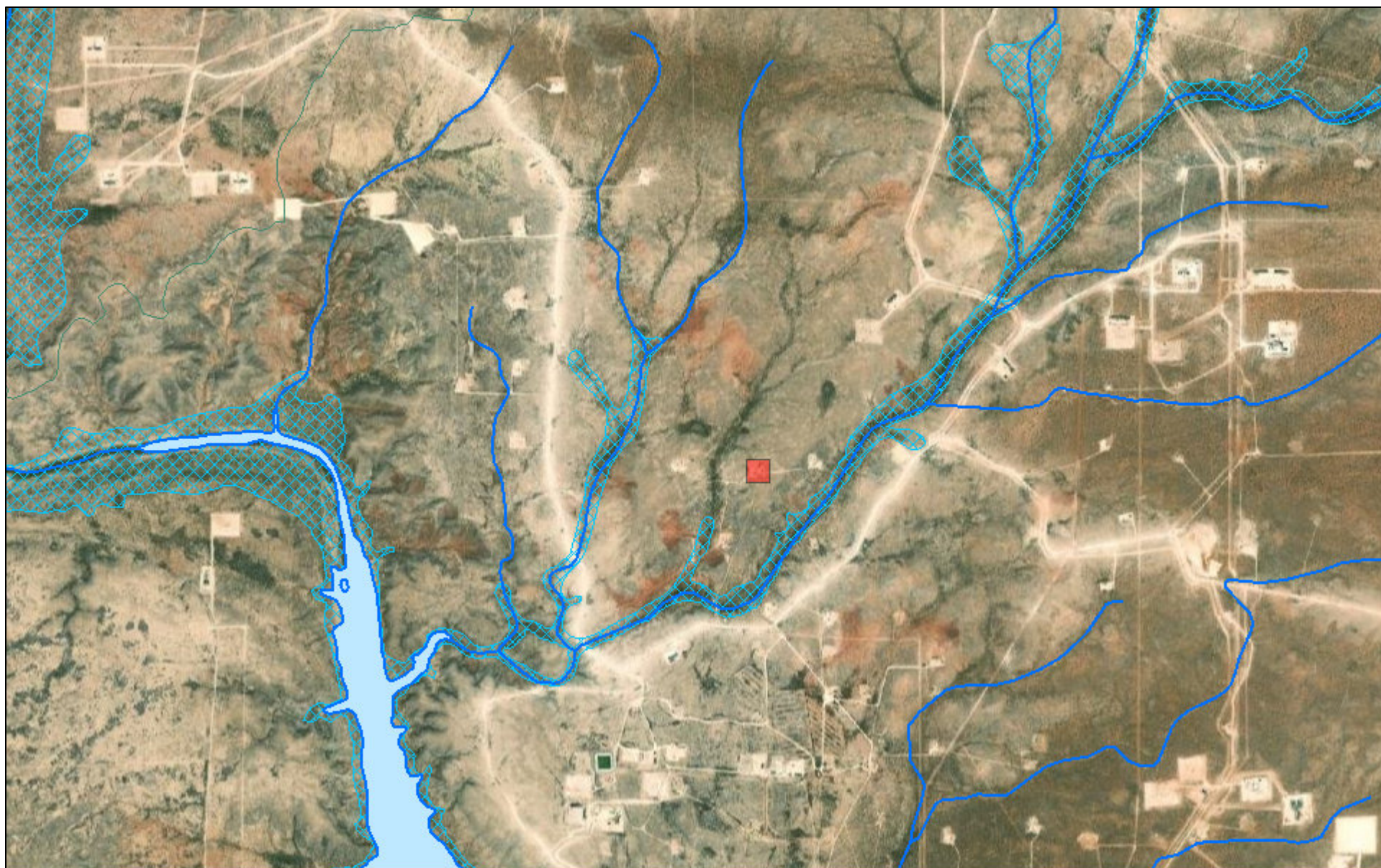
Google Earth



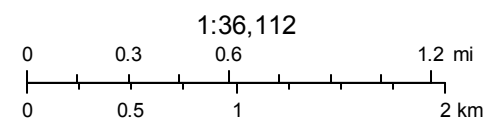
4 mi



## New Mexico NFHL Data



April 25, 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

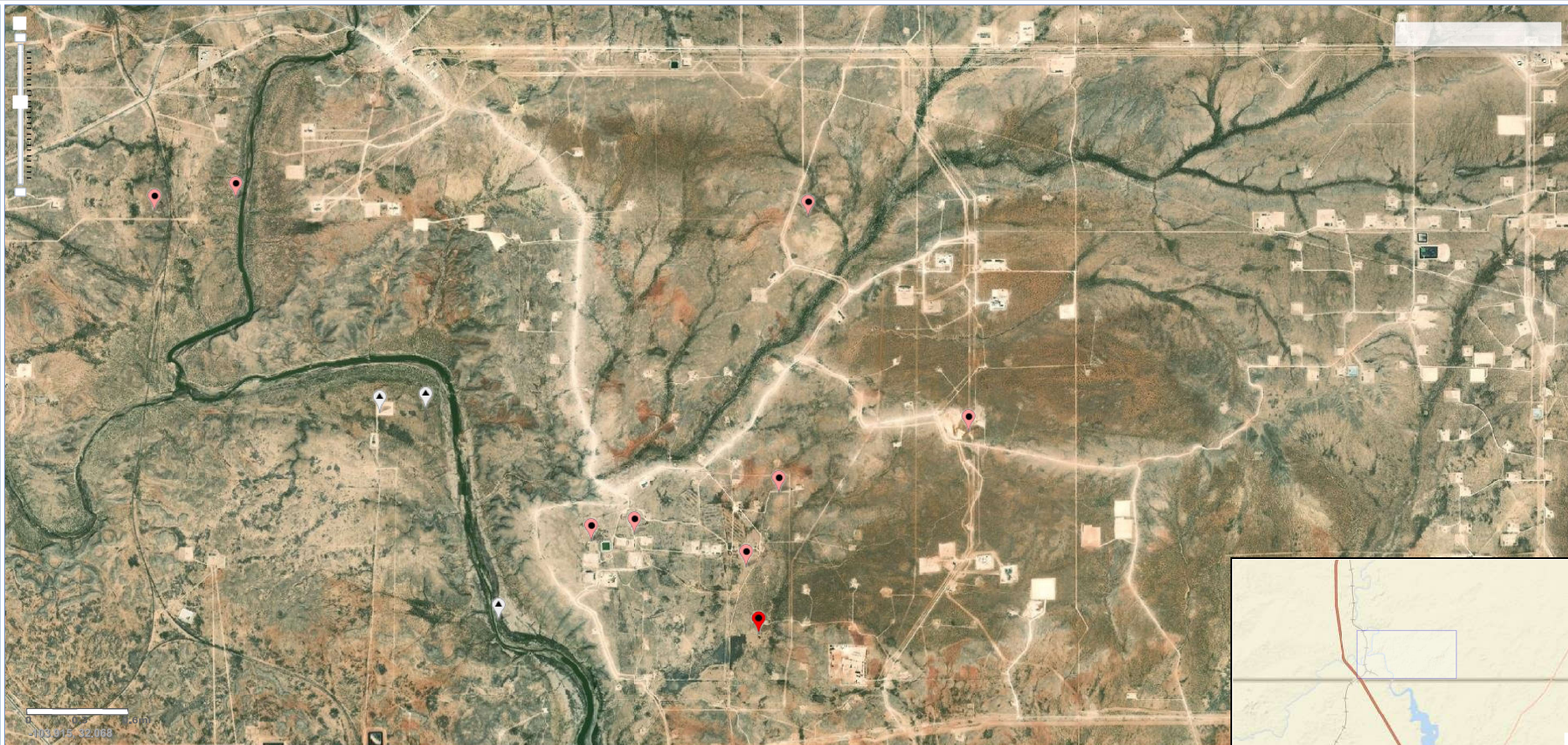




National Water Information System: Mapper

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Site Information





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                   | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | DepthWell | DepthWater | Water Column |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| <a href="#">C_01354 X-3</a>  |      | CUB           | ED     | 2    | 1    | 3   | 23  | 26S | 29E | 598323 | 3543837  | 1378     | 170       |            |              |
| <a href="#">C_03605 POD1</a> |      | CUB           | ED     | 4    | 2    | 3   | 27  | 26S | 29E | 596990 | 3541983  | 2902     | 45        | 0          | 45           |
| <a href="#">C_02038</a>      |      | C             | ED     | 3    | 2    | 4   | 26  | 26S | 29E | 599204 | 3541992* | 3387     | 200       |            |              |
| <a href="#">C_04473 POD1</a> |      | CUB           | ED     | 3    | 4    | 3   | 33  | 25S | 29E | 595018 | 3549768  | 5456     | 110       |            |              |
| <a href="#">C_03507 POD1</a> |      | C             | ED     | 1    | 3    | 3   | 05  | 26S | 29E | 593064 | 3548313  | 5541     | 140       | 78         | 62           |
| <a href="#">C_03508 POD1</a> |      | C             | ED     | 1    | 3    | 3   | 05  | 26S | 29E | 593063 | 3548361  | 5572     | 140       | 75         | 65           |
| Average Depth to Water:      |      |               |        |      |      |     |     |     |     |        |          |          |           | 51 feet    |              |
| Minimum Depth:               |      |               |        |      |      |     |     |     |     |        |          |          |           | 0 feet     |              |
| Maximum Depth:               |      |               |        |      |      |     |     |     |     |        |          |          |           | 78 feet    |              |

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 597396.11      Northing (Y): 3544857.27      Radius: 6000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:Groundwater

Geographic Area:New Mexico

GO

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

\* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320135103573301

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320135103573301 26S.29E.23.31220

Eddy County, New Mexico  
Latitude 32°01'35", Longitude 103°57'33" NAD27  
Land-surface elevation 2,913 feet above NGVD29  
The depth of the well is 170.00 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

Output formats

|                    |
|--------------------|
| Table of data      |
| Tab-separated data |
| Graph of data      |
| Reselect period    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-level<br>approval<br>status |
|------------|------|-------------------------------------------|------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|----------------------------------------|
| 1987-10-14 |      |                                           | D                      | 62610                                               | 2832.12                                                           | NGVD29                          | 1           | S                             |                          |                               | A                                      |
| 1987-10-14 |      |                                           | D                      | 62611                                               | 2833.65                                                           | NAVD88                          | 1           | S                             |                          |                               | A                                      |
| 1987-10-14 |      |                                           | D                      | 72019                                               | 80.88                                                             |                                 | 1           | S                             |                          |                               | A                                      |

Explanation

| Section                        | Code   | Description                                                  |
|--------------------------------|--------|--------------------------------------------------------------|
| Water-level date-time accuracy | D      | Date is accurate to the Day                                  |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet                      |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet                      |
| Parameter code                 | 72019  | Depth to water level, feet below land surface                |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988                        |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929                     |
| Status                         | 1      | Static                                                       |
| Method of measurement          | S      | Steel-tape measurement.                                      |
| Measuring agency               |        | Not determined                                               |
| Source of measurement          |        | Not determined                                               |
| Water-level approval status    | A      | Approved for publication -- Processing and review completed. |

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Accessibility FOIA Privacy Policies and Notices  
U.S. Department of the Interior | U.S. Geological Survey  
Title: Groundwater for New Mexico: Water Levels  
URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320135103573301&agency_cd=USGS&format=html)

Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2021-05-03 14:25:05 EDT  
0.31 0.28 nadww01



## Appendix C





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-1554-1

Laboratory Sample Delivery Group: Eddy County, New Mexico  
Client Project/Site: Sosa Federal #1

**For:**

Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
4/26/2021 6:34:26 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Laboratory Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | 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: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

---

**Job ID: 880-1554-1**

---

**Laboratory: Eurofins Xenco, Midland**

---

**Narrative**

---

**Job Narrative**  
**880-1554-1**

**Receipt**

The samples were received on 4/23/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**GC VOA**

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

**GC Semi VOA**

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

**HPLC/IC**

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



## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (0'-1')

Lab Sample ID: 880-1554-1

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 0.00624  |           | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| Ethylbenzene        | 0.0431   |           | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| m-Xylene & p-Xylene | 0.0128   |           | 0.00399 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| o-Xylene            | 0.00640  |           | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| Xylenes, Total      | 0.0192   |           | 0.00399 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| Total BTEX          | 0.0685   |           | 0.00399 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 00:54 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 88        |           | 70 - 130 | 04/24/21 12:17 | 04/25/21 00:54 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 04/24/21 12:17 | 04/25/21 00:54 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <250   | U         | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:58 | 5       |
| Diesel Range Organics (Over C10-C28) | 2220   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:58 | 5       |
| Oil Range Organics (Over C28-C36)    | 714    |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:58 | 5       |
| Total TPH                            | 2930   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:58 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 47        | S1-       | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:58 | 5       |
| o-Terphenyl    | 57        | S1-       | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:58 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1240   |           | 5.05 |     | mg/Kg |   |          | 04/23/21 20:12 | 1       |

Client Sample ID: AH-1 (1'-1.5')

Lab Sample ID: 880-1554-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result      | Qualifier | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-------------|-----------|-----------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00000000 | U         | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 000199      |           | 0000199   |     |       |   |                |                |         |
| Toluene             | <0.00000000 | U         | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 000199      |           | 0000199   |     |       |   |                |                |         |
| Ethylbenzene        | 0.00000000  |           | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 0111        |           | 0000199   |     |       |   |                |                |         |
| m-Xylene & p-Xylene | 0.00000000  |           | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 00440       |           | 0000398   |     |       |   |                |                |         |
| o-Xylene            | 0.00000000  |           | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 0119        |           | 0000199   |     |       |   |                |                |         |
| Xylenes, Total      | 0.00000000  |           | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 0163        |           | 0000398   |     |       |   |                |                |         |
| Total BTEX          | 0.00000000  |           | 0.0000000 |     | mg/Kg |   | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
|                     | 0274        |           | 0000398   |     |       |   |                |                |         |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 83        |           | 70 - 130 | 04/24/21 12:17 | 04/25/21 01:14 | 1       |
| 1,4-Difluorobenzene (Surr)  | 84        |           | 70 - 130 | 04/24/21 12:17 | 04/25/21 01:14 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (1'-1.5')

Lab Sample ID: 880-1554-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 253    |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:20 | 5       |
| Diesel Range Organics (Over C10-C28) | 1730   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:20 | 5       |
| Oil Range Organics (Over C28-C36)    | 507    |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:20 | 5       |
| Total TPH                            | 2490   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:20 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 44        | S1-       | 70 - 130 | 04/23/21 13:27 | 04/24/21 05:20 | 5       |
| o-Terphenyl    | 52        | S1-       | 70 - 130 | 04/23/21 13:27 | 04/24/21 05:20 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1980   |           | 25.2 |     | mg/Kg |   |          | 04/23/21 20:27 | 5       |

Client Sample ID: AH-1 (2'-2.5)

Lab Sample ID: 880-1554-3

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 0.0386 |           | 0.00202 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| Toluene             | 0.0213 |           | 0.00202 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| Ethylbenzene        | 0.0496 |           | 0.00202 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| m-Xylene & p-Xylene | 0.120  |           | 0.00404 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| o-Xylene            | 0.106  |           | 0.00202 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| Xylenes, Total      | 0.226  |           | 0.00404 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| Total BTEX          | 0.336  |           | 0.00404 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 15:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 228       | S1+       | 70 - 130 | 04/23/21 12:00 | 04/23/21 15:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 | 04/23/21 12:00 | 04/23/21 15:56 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 1290   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:41 | 5       |
| Diesel Range Organics (Over C10-C28) | 4300   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:41 | 5       |
| Oil Range Organics (Over C28-C36)    | 1130   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:41 | 5       |
| Total TPH                            | 6720   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 05:41 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 117       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 05:41 | 5       |
| o-Terphenyl    | 108       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 05:41 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2300   |           | 25.2 |     | mg/Kg |   |          | 04/23/21 20:32 | 5       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (3'-3.5')

Lab Sample ID: 880-1554-4

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 0.00972  |           | 0.00200 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| Toluene             | 0.0127   |           | 0.00200 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| Ethylbenzene        | 0.0423   |           | 0.00200 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| m-Xylene & p-Xylene | 0.0900   |           | 0.00401 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| Xylenes, Total      | 0.0900   |           | 0.00401 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| Total BTEX          | 0.155    |           | 0.00401 |     | mg/Kg |   | 04/23/21 12:00 | 04/23/21 16:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 171       | S1+       | 70 - 130 | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 04/23/21 12:00 | 04/23/21 16:37 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 04/23/21 12:00 | 04/23/21 16:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 119       |           | 70 - 130 | 04/23/21 12:00 | 04/23/21 16:37 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 343    |           | 49.9 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:36 | 1       |
| Diesel Range Organics (Over C10-C28) | 1350   |           | 49.9 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:36 | 1       |
| Oil Range Organics (Over C28-C36)    | 351    |           | 49.9 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:36 | 1       |
| Total TPH                            | 2040   |           | 49.9 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:36 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 5         | S1-       | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:36 | 1       |
| o-Terphenyl    | 108       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:36 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2300   |           | 24.9 |     | mg/Kg |   |          | 04/23/21 20:37 | 5       |

Client Sample ID: AH-1 (4'-4.5')

Lab Sample ID: 880-1554-5

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 0.00535  |           | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| m-Xylene & p-Xylene | 0.0124   |           | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| Xylenes, Total      | 0.0124   |           | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| Total BTEX          | 0.0178   |           | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 16:58 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 16:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 61        | S1-       | 70 - 130 | 04/23/21 15:00 | 04/23/21 16:58 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (4'-4.5')

Lab Sample ID: 880-1554-5

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:15 | 1       |
| Diesel Range Organics (Over C10-C28) | 246    |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:15 | 1       |
| Oil Range Organics (Over C28-C36)    | 61.5   |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:15 | 1       |
| Total TPH                            | 308    |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 04:15 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 95        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:15 | 1       |
| o-Terphenyl    | 103       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 04:15 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 2140   |           | 49.6 |     | mg/Kg |   |          | 04/23/21 20:42 | 10      |

Client Sample ID: AH-1 (5'-5.5')

Lab Sample ID: 880-1554-6

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 17:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 17:19 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:31 | 1       |
| Diesel Range Organics (Over C10-C28) | 207    |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:31 | 1       |
| Oil Range Organics (Over C28-C36)    | 51.8   |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:31 | 1       |
| Total TPH                            | 259    |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:31 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 03:31 | 1       |
| o-Terphenyl    | 107       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 03:31 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1780   |           | 49.7 |     | mg/Kg |   |          | 04/23/21 20:47 | 10      |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (6'-6.5')

Lab Sample ID: 880-1554-7

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| Total BTEX          | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 17:39 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 17:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 17:39 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:10 | 1       |
| Diesel Range Organics (Over C10-C28) | 57.6   |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:10 | 1       |
| Total TPH                            | 57.6   |           | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 03:10 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 98        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 03:10 | 1       |
| o-Terphenyl    | 105       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 03:10 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1430   |           | 49.8 |     | mg/Kg |   |          | 04/23/21 20:52 | 10      |

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-1554-8

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| Total BTEX          | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 16:28 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 04/26/21 10:48 | 04/26/21 16:28 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101       |           | 70 - 130 | 04/26/21 10:48 | 04/26/21 16:28 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <249   | U         | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:03 | 5       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-1554-8

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | 2590   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:03 | 5       |
| Oil Range Organics (Over C28-C36)    | 598    |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:03 | 5       |
| Total TPH                            | 3190   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:03 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:03 | 5       |
| o-Terphenyl    | 104       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:03 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 4040   |           | 25.0 |     | mg/Kg |   |          | 04/23/21 20:57 | 5       |

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-1554-9

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92        |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:01 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <250   | U         | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:24 | 5       |
| Diesel Range Organics (Over C10-C28) | 2090   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:24 | 5       |
| Oil Range Organics (Over C28-C36)    | 525    |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:24 | 5       |
| Total TPH                            | 2620   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:24 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 87        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:24 | 5       |
| o-Terphenyl    | 103       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:24 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1380   |           | 50.4 |     | mg/Kg |   |          | 04/25/21 01:48 | 10      |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-3(1'-1.5')

Lab Sample ID: 880-1554-10

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:22 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:22 | 1       |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:22 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <250   | U         | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:46 | 5       |
| Diesel Range Organics (Over C10-C28) | 1200   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:46 | 5       |
| Oil Range Organics (Over C28-C36)    | 385    |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:46 | 5       |
| Total TPH                            | 1590   |           | 250 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 06:46 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:46 | 5       |
| o-Terphenyl    | 97        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 06:46 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1260   |           | 50.2 |     | mg/Kg |   |          | 04/25/21 02:04 | 10      |

Client Sample ID: AH-3 (2'-2.5')

Lab Sample ID: 880-1554-11

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| Total BTEX          | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 19:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 19:43 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <249   | U         | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:08 | 5       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-3 (2'-2.5')

Lab Sample ID: 880-1554-11

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | 1580   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:08 | 5       |
| Oil Range Organics (Over C28-C36)    | 394    |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:08 | 5       |
| Total TPH                            | 1970   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:08 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 07:08 | 5       |
| o-Terphenyl    | 92        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 07:08 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1140   |           | 49.5 |     | mg/Kg |   |          | 04/25/21 02:09 | 10      |

Client Sample ID: AH-3 (3'-3.5')

Lab Sample ID: 880-1554-12

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/23/21 15:00 | 04/23/21 20:03 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 91        |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 20:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 104       |           | 70 - 130 | 04/23/21 15:00 | 04/23/21 20:03 | 1       |

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

| Analyte                              | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <249   | U         | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:30 | 5       |
| Diesel Range Organics (Over C10-C28) | 1630   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:30 | 5       |
| Oil Range Organics (Over C28-C36)    | 427    |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:30 | 5       |
| Total TPH                            | 2060   |           | 249 |     | mg/Kg |   | 04/23/21 13:27 | 04/24/21 07:30 | 5       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88        |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 07:30 | 5       |
| o-Terphenyl    | 105       |           | 70 - 130 | 04/23/21 13:27 | 04/24/21 07:30 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1410   |           | 49.9 |     | mg/Kg |   |          | 04/25/21 02:14 | 10      |

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## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-1554-1                        | AH-1 (0'-1')           | 88                                             | 95                |
| 880-1554-2                        | AH-1 (1'-1.5')         | 83                                             | 84                |
| 880-1554-3                        | AH-1 (2'-2.5')         | 228 S1+                                        | 90                |
| 880-1554-4                        | AH-1 (3'-3.5')         | 171 S1+                                        | 105               |
| 880-1554-4                        | AH-1 (3'-3.5')         | 97                                             | 119               |
| 880-1554-5                        | AH-1 (4'-4.5')         | 100                                            | 61 S1-            |
| 880-1554-6                        | AH-1 (5'-5.5')         | 97                                             | 92                |
| 880-1554-7                        | AH-1 (6'-6.5')         | 108                                            | 105               |
| 880-1554-8                        | AH-2 (0'-1')           | 89                                             | 101               |
| 880-1554-9                        | AH-3 (0'-1')           | 92                                             | 105               |
| 880-1554-10                       | AH-3 (1'-1.5')         | 105                                            | 113               |
| 880-1554-11                       | AH-3 (2'-2.5')         | 98                                             | 109               |
| 880-1554-12                       | AH-3 (3'-3.5')         | 91                                             | 104               |
| LCS 880-2188/1-A                  | Lab Control Sample     | 87                                             | 100               |
| LCS 880-2278/1-A                  | Lab Control Sample     | 98                                             | 104               |
| LCS 880-2322/1-A                  | Lab Control Sample     | 101                                            | 104               |
| LCSD 880-2188/2-A                 | Lab Control Sample Dup | 90                                             | 108               |
| LCSD 880-2278/2-A                 | Lab Control Sample Dup | 99                                             | 104               |
| LCSD 880-2322/2-A                 | Lab Control Sample Dup | 99                                             | 105               |
| MB 880-2188/5-A                   | Method Blank           | 112                                            | 95                |
| MB 880-2278/5-A                   | Method Blank           | 98                                             | 102               |
| MB 880-2322/5-A                   | Method Blank           | 99                                             | 102               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                  | Percent Surrogate Recovery (Acceptance Limits) |       |
|-----------------------------------|------------------|------------------------------------------------|-------|
| Lab Sample ID                     | Client Sample ID | BFB1                                           | DFBZ1 |
| 880-1554-8 MS                     | AH-2 (0'-1')     |                                                |       |
| 880-1554-8 MSD                    | AH-2 (0'-1')     |                                                |       |
| <b>Surrogate Legend</b>           |                  |                                                |       |
| BFB = 4-Bromofluorobenzene (Surr) |                  |                                                |       |
| DFBZ = 1,4-Difluorobenzene (Surr) |                  |                                                |       |

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

Matrix: Solid

Prep Type: Total/NA

|               |                  | Percent Surrogate Recovery (Acceptance Limits) |                   |
|---------------|------------------|------------------------------------------------|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-1554-1    | AH-1 (0'-1')     | 47 S1-                                         | 57 S1-            |
| 880-1554-2    | AH-1 (1'-1.5')   | 44 S1-                                         | 52 S1-            |
| 880-1554-3    | AH-1 (2'-2.5')   | 117                                            | 108               |
| 880-1554-4    | AH-1 (3'-3.5')   | 5 S1-                                          | 108               |
| 880-1554-5    | AH-1 (4'-4.5')   | 95                                             | 103               |

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## Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-1554-1

Project/Site: Sosa Federal #1

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

|                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID     | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-1554-6        | AH-1 (5'-5.5')         | 92                                             | 107               |
| 880-1554-7        | AH-1 (6'-6.5')         | 98                                             | 105               |
| 880-1554-8        | AH-2 (0'-1')           | 91                                             | 104               |
| 880-1554-9        | AH-3 (0'-1')           | 87                                             | 103               |
| 880-1554-10       | AH-3(1'-1.5')          | 85                                             | 97                |
| 880-1554-11       | AH-3 (2'-2.5')         | 81                                             | 92                |
| 880-1554-12       | AH-3 (3'-3.5')         | 88                                             | 105               |
| LCS 880-2225/2-A  | Lab Control Sample     | 94                                             | 97                |
| LCSD 880-2225/3-A | Lab Control Sample Dup | 92                                             | 90                |
| MB 880-2225/1-A   | Method Blank           | 86                                             | 99                |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2188/5-A

Matrix: Solid

Analysis Batch: 2194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2188

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/23/21 09:30 | 04/23/21 13:43 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 112          |              | 70 - 130 | 04/23/21 09:30 | 04/23/21 13:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95           |              | 70 - 130 | 04/23/21 09:30 | 04/23/21 13:43 | 1       |

Lab Sample ID: LCS 880-2188/1-A

Matrix: Solid

Analysis Batch: 2194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2188

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.08280    |               | mg/Kg |   | 83   | 70 - 130     |
| Toluene             | 0.100       | 0.09163    |               | mg/Kg |   | 92   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.08635    |               | mg/Kg |   | 86   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1772     |               | mg/Kg |   | 89   | 70 - 130     |
| o-Xylene            | 0.100       | 0.08741    |               | mg/Kg |   | 87   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 87            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2188/2-A

Matrix: Solid

Analysis Batch: 2194

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2188

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.08264     |                | mg/Kg |   | 83   | 70 - 130     | 0   | 35        |
| Toluene             | 0.100       | 0.09915     |                | mg/Kg |   | 99   | 70 - 130     | 8   | 35        |
| Ethylbenzene        | 0.100       | 0.09046     |                | mg/Kg |   | 90   | 70 - 130     | 5   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1887      |                | mg/Kg |   | 94   | 70 - 130     | 6   | 35        |
| o-Xylene            | 0.100       | 0.09066     |                | mg/Kg |   | 91   | 70 - 130     | 4   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 90             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108            |                | 70 - 130 |

Lab Sample ID: MB 880-2278/5-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2278

| Analyte | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2278/5-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 04/24/21 12:17 | 04/24/21 16:48 | 1       |

Lab Sample ID: LCS 880-2278/1-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09172    |               | mg/Kg |   | 92   | 70 - 130     |
| Toluene             | 0.100       | 0.09493    |               | mg/Kg |   | 95   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1003     |               | mg/Kg |   | 100  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2034     |               | mg/Kg |   | 102  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09964    |               | mg/Kg |   | 100  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2278/2-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09080     |                | mg/Kg |   | 91   | 70 - 130     | 1   | 35        |
| Toluene             | 0.100       | 0.09385     |                | mg/Kg |   | 94   | 70 - 130     | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09846     |                | mg/Kg |   | 98   | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2009      |                | mg/Kg |   | 100  | 70 - 130     | 1   | 35        |
| o-Xylene            | 0.100       | 0.09914     |                | mg/Kg |   | 99   | 70 - 130     | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: MB 880-2322/5-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2322

| Analyte | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| Toluene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2322/5-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2322

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/26/21 10:48 | 04/26/21 15:59 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 99           |              | 70 - 130 | 04/26/21 10:48 | 04/26/21 15:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 04/26/21 10:48 | 04/26/21 15:59 | 1       |

Lab Sample ID: LCS 880-2322/1-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2322

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09265    |               | mg/Kg |   | 93   | 70 - 130     |
| Toluene             | 0.100       | 0.09469    |               | mg/Kg |   | 95   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1007     |               | mg/Kg |   | 101  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2048     |               | mg/Kg |   | 102  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1002     |               | mg/Kg |   | 100  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 101           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2322/2-A

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2322

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Benzene             | 0.100       | 0.09343     |                | mg/Kg |   | 93   | 70 - 130     | 1   | 35    |
| Toluene             | 0.100       | 0.09645     |                | mg/Kg |   | 96   | 70 - 130     | 2   | 35    |
| Ethylbenzene        | 0.100       | 0.1022      |                | mg/Kg |   | 102  | 70 - 130     | 1   | 35    |
| m-Xylene & p-Xylene | 0.200       | 0.2080      |                | mg/Kg |   | 104  | 70 - 130     | 2   | 35    |
| o-Xylene            | 0.100       | 0.1011      |                | mg/Kg |   | 101  | 70 - 130     | 1   | 35    |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105            |                | 70 - 130 |

Lab Sample ID: 880-1554-8 MS

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: AH-2 (0'-1')

Prep Type: Total/NA

Prep Batch: 2322

| Analyte      | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene      | <0.00202      | U                | 0.101       | 0.06609   |              | mg/Kg |   |      |              |
| Toluene      | <0.00202      | U                | 0.101       | 0.05963   |              | mg/Kg |   |      |              |
| Ethylbenzene | <0.00202      | U                | 0.101       | 0.04972   |              | mg/Kg |   |      |              |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1554-8 MS

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: AH-2 (0'-1')

Prep Type: Total/NA

Prep Batch: 2322

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| m-Xylene & p-Xylene | <0.00403      | U                | 0.202       | 0.06175   |              | mg/Kg |   |      |              |
| o-Xylene            | <0.00202      | U                | 0.101       | 0.04911   |              | mg/Kg |   |      |              |

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

Lab Sample ID: 880-1554-8 MSD

Matrix: Solid

Analysis Batch: 2325

Client Sample ID: AH-2 (0'-1')

Prep Type: Total/NA

Prep Batch: 2322

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U                | 0.100       | 0.07816    |               | mg/Kg |   |      |              |     |           |
| Toluene             | <0.00202      | U                | 0.100       | 0.06521    |               | mg/Kg |   |      |              |     |           |
| Ethylbenzene        | <0.00202      | U                | 0.100       | 0.05085    |               | mg/Kg |   |      |              |     |           |
| m-Xylene & p-Xylene | <0.00403      | U                | 0.200       | 0.05081    |               | mg/Kg |   |      |              |     |           |
| o-Xylene            | <0.00202      | U                | 0.100       | 0.06132    |               | mg/Kg |   |      |              |     |           |

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

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

Lab Sample ID: MB 880-2225/1-A

Matrix: Solid

Analysis Batch: 2197

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2225

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/23/21 22:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/23/21 22:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/23/21 22:28 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:27 | 04/23/21 22:28 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 86           |              | 70 - 130 | 04/23/21 13:27 | 04/23/21 22:28 | 1       |
| o-Terphenyl    | 99           |              | 70 - 130 | 04/23/21 13:27 | 04/23/21 22:28 | 1       |

Lab Sample ID: LCS 880-2225/2-A

Matrix: Solid

Analysis Batch: 2197

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2225

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1012       |               | mg/Kg |   | 101  | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 950.3      |               | mg/Kg |   | 95   | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-2225/2-A

Matrix: Solid

Analysis Batch: 2197

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2225

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 94        |           | 70 - 130 |
| o-Terphenyl    | 97        |           | 70 - 130 |

Lab Sample ID: LCSD 880-2225/3-A

Matrix: Solid

Analysis Batch: 2197

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2225

|                                      |  |  |       | Spike  | LCSD      | LCSD  |   |      |          | %Rec. |       | RPD |
|--------------------------------------|--|--|-------|--------|-----------|-------|---|------|----------|-------|-------|-----|
| Analyte                              |  |  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD   | Limit |     |
| Gasoline Range Organics (GRO)-C6-C10 |  |  | 1000  | 953.7  |           | mg/Kg |   | 95   | 70 - 130 | 6     | 20    |     |
| Diesel Range Organics (Over C10-C28) |  |  | 1000  | 881.8  |           | mg/Kg |   | 88   | 70 - 130 | 7     | 20    |     |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 90        |           | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2232/1-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Method Blank

Prep Type: Soluble

|          | MB     | MB        |      |     |       |   |          |                |         |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride | <5.00  | U         | 5.00 |     | mg/Kg |   |          | 04/23/21 18:25 | 1       |

Lab Sample ID: LCS 880-2232/2-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Lab Control Sample

Prep Type: Soluble

|          |  |  | Spike | LCS    | LCS       | %Rec. |   |      |          |
|----------|--|--|-------|--------|-----------|-------|---|------|----------|
| Analyte  |  |  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |
| Chloride |  |  | 250   | 252.5  |           | mg/Ka |   | 101  | 90 - 110 |

Lab Sample ID: LCSD 880-2232/3-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

|          | Spike | LCSD   | LCSD      |       |   |      | %Rec.    |     | RPD   |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Chloride | 250   | 256.4  |           | mg/Kg |   | 103  | 90 - 110 | 2   | 20    |

Lab Sample ID: MB 880-2233/1-A

Matrix: Solid

Analysis Batch: 2281

Client Sample ID: Method Blank

Prep Type: Soluble

|          | MB     | MB        |      |     |       |   |          |                |         |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride | <5.00  | U         | 5.00 |     | mg/Kg |   |          | 04/25/21 00:02 | 1       |

Eurofins Xenco, Midland

## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-2233/2-A

Matrix: Solid

Analysis Batch: 2281

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 261.5         |                  | mg/Kg |   | 105  | 90 - 110        |

Lab Sample ID: LCSD 880-2233/3-A

Matrix: Solid

Analysis Batch: 2281

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 261.6          |                   | mg/Kg |   | 105  | 90 - 110        | 0   | 20           |

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

## GC VOA

## Prep Batch: 2188

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-3        | AH-1 (2'-2.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-4        | AH-1 (3'-3.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-5        | AH-1 (4'-4.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-6        | AH-1 (5'-5.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-7        | AH-1 (6'-6.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-9        | AH-3 (0'-1')           | Total/NA  | Solid  | 5035   |            |
| 880-1554-10       | AH-3(1'-1.5')          | Total/NA  | Solid  | 5035   |            |
| 880-1554-11       | AH-3 (2'-2.5')         | Total/NA  | Solid  | 5035   |            |
| 880-1554-12       | AH-3 (3'-3.5')         | Total/NA  | Solid  | 5035   |            |
| MB 880-2188/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2188/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2188/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2194

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-3        | AH-1 (2'-2.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-4        | AH-1 (3'-3.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-4        | AH-1 (3'-3.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-5        | AH-1 (4'-4.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-6        | AH-1 (5'-5.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-7        | AH-1 (6'-6.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-9        | AH-3 (0'-1')           | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-10       | AH-3(1'-1.5')          | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-11       | AH-3 (2'-2.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| 880-1554-12       | AH-3 (3'-3.5')         | Total/NA  | Solid  | 8021B  | 2188       |
| MB 880-2188/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2188       |
| LCS 880-2188/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2188       |
| LCSD 880-2188/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2188       |

## Prep Batch: 2278

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Total/NA  | Solid  | 5035   |            |
| 880-1554-2        | AH-1 (1'-1.5')         | Total/NA  | Solid  | 5035   |            |
| MB 880-2278/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2278/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2278/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2279

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Total/NA  | Solid  | 8021B  | 2278       |
| 880-1554-2        | AH-1 (1'-1.5')         | Total/NA  | Solid  | 8021B  | 2278       |
| MB 880-2278/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2278       |
| LCS 880-2278/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2278       |
| LCSD 880-2278/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2278       |

## Prep Batch: 2322

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-8        | AH-2 (0'-1')           | Total/NA  | Solid  | 5035   |            |
| MB 880-2322/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2322/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2322/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

## GC VOA (Continued)

## Prep Batch: 2322 (Continued)

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|--------|------------|
| 880-1554-8 MS  | AH-2 (0'-1')     | Total/NA  | Solid  | 5035   |            |
| 880-1554-8 MSD | AH-2 (0'-1')     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2325

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-8        | AH-2 (0'-1')           | Total/NA  | Solid  | 8021B  | 2322       |
| MB 880-2322/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2322       |
| LCS 880-2322/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2322       |
| LCSD 880-2322/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2322       |
| 880-1554-8 MS     | AH-2 (0'-1')           | Total/NA  | Solid  | 8021B  | 2322       |
| 880-1554-8 MSD    | AH-2 (0'-1')           | Total/NA  | Solid  | 8021B  | 2322       |

## GC Semi VOA

## Analysis Batch: 2197

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-2        | AH-1 (1'-1.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-3        | AH-1 (2'-2.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-4        | AH-1 (3'-3.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-5        | AH-1 (4'-4.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-6        | AH-1 (5'-5.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-7        | AH-1 (6'-6.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-8        | AH-2 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-9        | AH-3 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-10       | AH-3(1'-1.5')          | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-11       | AH-3 (2'-2.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| 880-1554-12       | AH-3 (3'-3.5')         | Total/NA  | Solid  | 8015B NM | 2225       |
| MB 880-2225/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 2225       |
| LCS 880-2225/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 2225       |
| LCSD 880-2225/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 2225       |

## Prep Batch: 2225

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-2        | AH-1 (1'-1.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-3        | AH-1 (2'-2.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-4        | AH-1 (3'-3.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-5        | AH-1 (4'-4.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-6        | AH-1 (5'-5.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-7        | AH-1 (6'-6.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-8        | AH-2 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-9        | AH-3 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-10       | AH-3(1'-1.5')          | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-11       | AH-3 (2'-2.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1554-12       | AH-3 (3'-3.5')         | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-2225/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-2225/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-2225/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

## HPLC/IC

## Leach Batch: 2232

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| 880-1554-2        | AH-1 (1'-1.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-3        | AH-1 (2'-2.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-4        | AH-1 (3'-3.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-5        | AH-1 (4'-4.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-6        | AH-1 (5'-5.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-7        | AH-1 (6'-6.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-8        | AH-2 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| MB 880-2232/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-2232/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-2232/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 2233

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-1554-9        | AH-3 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| 880-1554-10       | AH-3(1'-1.5')          | Soluble   | Solid  | DI Leach |            |
| 880-1554-11       | AH-3 (2'-2.5')         | Soluble   | Solid  | DI Leach |            |
| 880-1554-12       | AH-3 (3'-3.5')         | Soluble   | Solid  | DI Leach |            |
| MB 880-2233/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-2233/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-2233/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 2258

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-1        | AH-1 (0'-1')           | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-2        | AH-1 (1'-1.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-3        | AH-1 (2'-2.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-4        | AH-1 (3'-3.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-5        | AH-1 (4'-4.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-6        | AH-1 (5'-5.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-7        | AH-1 (6'-6.5')         | Soluble   | Solid  | 300.0  | 2232       |
| 880-1554-8        | AH-2 (0'-1')           | Soluble   | Solid  | 300.0  | 2232       |
| MB 880-2232/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 2232       |
| LCS 880-2232/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 2232       |
| LCSD 880-2232/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 2232       |

## Analysis Batch: 2281

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1554-9        | AH-3 (0'-1')           | Soluble   | Solid  | 300.0  | 2233       |
| 880-1554-10       | AH-3(1'-1.5')          | Soluble   | Solid  | 300.0  | 2233       |
| 880-1554-11       | AH-3 (2'-2.5')         | Soluble   | Solid  | 300.0  | 2233       |
| 880-1554-12       | AH-3 (3'-3.5')         | Soluble   | Solid  | 300.0  | 2233       |
| MB 880-2233/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 2233       |
| LCS 880-2233/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 2233       |
| LCSD 880-2233/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 2233       |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (0'-1')

Lab Sample ID: 880-1554-1

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2278         | 04/24/21 12:17       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2279         | 04/25/21 00:54       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 04:58       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 1               | 2258         | 04/23/21 20:12       | WP      | XM  |

Client Sample ID: AH-1 (1'-1.5')

Lab Sample ID: 880-1554-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2278         | 04/24/21 12:17       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2279         | 04/25/21 01:14       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 05:20       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2258         | 04/23/21 20:27       | WP      | XM  |

Client Sample ID: AH-1 (2'-2.5')

Lab Sample ID: 880-1554-3

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 12:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 15:56       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 05:41       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2258         | 04/23/21 20:32       | WP      | XM  |

Client Sample ID: AH-1 (3'-3.5')

Lab Sample ID: 880-1554-4

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 12:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 16:17       | KL      | XM  |
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 12:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 16:37       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2197         | 04/24/21 04:36       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2258         | 04/23/21 20:37       | WP      | XM  |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-1 (4'-4.5')

Lab Sample ID: 880-1554-5

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 16:58       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2197         | 04/24/21 04:15       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2258         | 04/23/21 20:42       | WP      | XM  |

Client Sample ID: AH-1 (5'-5.5')

Lab Sample ID: 880-1554-6

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 17:19       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2197         | 04/24/21 03:31       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2258         | 04/23/21 20:47       | WP      | XM  |

Client Sample ID: AH-1 (6'-6.5')

Lab Sample ID: 880-1554-7

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 17:39       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2197         | 04/24/21 03:10       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2258         | 04/23/21 20:52       | WP      | XM  |

Client Sample ID: AH-2 (0'-1')

Lab Sample ID: 880-1554-8

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2322         | 04/26/21 10:48       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2325         | 04/26/21 16:28       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 06:03       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2258         | 04/23/21 20:57       | WP      | XM  |

Eurofins Xenco, Midland

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-3 (0'-1')

Lab Sample ID: 880-1554-9

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 19:01       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 06:24       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2233         | 04/23/21 14:08       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2281         | 04/25/21 01:48       | WP      | XM  |

Client Sample ID: AH-3(1'-1.5')

Lab Sample ID: 880-1554-10

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 19:22       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 06:46       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2233         | 04/23/21 14:08       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2281         | 04/25/21 02:04       | WP      | XM  |

Client Sample ID: AH-3 (2'-2.5')

Lab Sample ID: 880-1554-11

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 19:43       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 07:08       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2233         | 04/23/21 14:08       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2281         | 04/25/21 02:09       | WP      | XM  |

Client Sample ID: AH-3 (3'-3.5')

Lab Sample ID: 880-1554-12

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2188         | 04/23/21 15:00       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2194         | 04/23/21 20:03       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2225         | 04/23/21 13:27       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 5               | 2197         | 04/24/21 07:30       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2233         | 04/23/21 14:08       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2281         | 04/25/21 02:14       | WP      | XM  |

## Laboratory References:

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

Eurofins Xenco, Midland



**Accreditation/Certification Summary**

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

**Laboratory: Eurofins Xenco, Midland**

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |

Eurofins Xenco, Midland

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XM         |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XM         |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XM         |
| 5035        | Closed System Purge and Trap       | SW846    | XM         |
| 8015NM Prep | Microextraction                    | SW846    | XM         |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XM         |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

Eurofins Xenco, Midland

## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

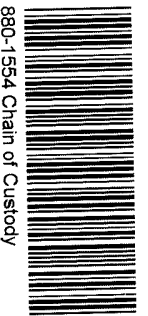
Job ID: 880-1554-1  
SDG: Eddy County, New Mexico

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 880-1554-1    | AH-1 (0'-1')     | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-2    | AH-1 (1'-1.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-3    | AH-1 (2'-2.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-4    | AH-1 (3'-3.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-5    | AH-1 (4'-4.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-6    | AH-1 (5'-5.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-7    | AH-1 (6'-6.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-8    | AH-2 (0'-1')     | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-9    | AH-3 (0'-1')     | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-10   | AH-3(1'-1.5')    | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-11   | AH-3 (2'-2.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1554-12   | AH-3 (3'-3.5')   | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |

Analysis Request of Chain of Custody Record



Tetra Tech



880-1554 Chain of Custody

901 West Wall Street Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

880-1554

Client Name:

EOG

Site Manager:

Paula TocoraAlonso

Project Name:

Sosa Federal #1

Contact Info:

Email  
paula.tocoraalonso@tetratech.com

Project Location:  
(county, state)

Eddy County, New Mexico

Project #:

212C-MD-02419 Task 3400

Invoice to:

EOG James Kennedy

Receiving Laboratory:

Xenco

Sampler Signature:

Joe Tyler

Comments:

LAB #  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING  
YEAR 2021  
DATE  
TIME

MATRIX  
WATER  
SOIL  
HCL  
HNO<sub>3</sub>  
ICE  
NONE

PRESERVATIVE  
METHOD  
# CONTAINERS  
FILTERED (Y/N)

|                |          |  |  |   |  |  |  |  |  |   |   |
|----------------|----------|--|--|---|--|--|--|--|--|---|---|
| AH-1 (0-1')    | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (1'-1.5') | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (2-2.5')  | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (3-3.5')  | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (4-4.5')  | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (5-5.5')  | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-1 (6-6.5')  | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-2 (0-1')    | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-3 (0-1')    | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |
| AH-3 (1'-1.5') | 04/22/21 |  |  | X |  |  |  |  |  | 1 | N |

Relinquished by

Date  
Time

Received by

Date  
Time

Relinquished by

Date  
Time

Received by

Date  
Time

Relinquished by

Date  
Time

Received by

Date  
Time

ORIGINAL COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                             |            |
|---------------------------------------------|------------|
| BTEX 8021B                                  | BTEX 8260B |
| TPH TX1005 (Ext to C35)                     |            |
| TPH 8015M (GRO - DRO - ORO - MRO)           |            |
| PAH 8270C                                   |            |
| Total Metals Ag As Ba Cd Cr Pb Se Hg        |            |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg         |            |
| TCLP Volatiles                              |            |
| TCLP Semi Volatiles                         |            |
| RCI                                         |            |
| GC/MS Vol 8260B / 624                       |            |
| GC/MS Semi Vol 8270C/625                    |            |
| PCBs 8082 / 608                             |            |
| NORM                                        |            |
| PLM (Asbestos)                              |            |
| Chloride 300 0                              |            |
| Chloride Sulfate TDS                        |            |
| General Water Chemistry (see attached list) |            |
| Anion/Cation Balance                        |            |
| TPH 8015R                                   |            |
| HOLD                                        |            |

LAB USE ONLY

REMARKS:

☐ Standard

☒ RUSH Same-Day 24 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

0.6/1.0

+0.5

(Circle) HAND DELIVERED FEDEX UPS Tracking #



# Tetra Tech, Inc.

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: EOG

Site Manager:

Paula TocoraAlonso

Project Name: Sosa Federal #1

Contact Info:

Email  
paula.tocoraalonso@tetratech.com

Project Location: Eddy County, New Mexico  
(county, state)

Project #:

212C-MD-02419, Task 3400

Invoice to: EOG James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Joe Tyler

Comments: 0

LAB #  
(LAB USE ONLY)

## SAMPLE IDENTIFICATION

| YEAR 2021 | DATE | TIME | MATRIX           | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) |
|-----------|------|------|------------------|---------------------|--------------|----------------|
|           |      |      |                  |                     |              |                |
|           |      |      | WATER            |                     |              |                |
|           |      |      | SOIL             |                     |              |                |
|           |      |      | HCL              |                     |              |                |
|           |      |      | HNO <sub>3</sub> |                     |              |                |
|           |      |      | ICE              |                     |              |                |
|           |      |      | NONE             |                     |              |                |

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol 8260B / 624

GC/MS Semi Vol 8270C/625

PCBs 8082 / 608

NORM

PLM (Asbestos)

Chloride 300 0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

## ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY

REMARKS:

☐ Standard

☒ RUSH Same Day 24 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

46 hr - 72 hr

Sample Temperature

0.6 / 1.0

+0.5

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #



## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-1554-1

SDG Number: Eddy County, New Mexico

Login Number: 1554

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

| 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.                                       | False  | No sample times |
| Appropriate sample containers are used.                                          | True   |                 |
| Sample bottles are completely filled.                                            | True   |                 |
| Sample Preservation Verified.                                                    | N/A    |                 |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                 |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                 |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-1551-1

Laboratory Sample Delivery Group: Eddy County, New Mexico  
Client Project/Site: Sosa Federal #1

**For:**

Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
4/26/2021 7:10:42 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Laboratory Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| 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. |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

Eurofins Xenco, Midland

**Case Narrative**

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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**Job ID: 880-1551-1**

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**Laboratory: Eurofins Xenco, Midland**

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**Narrative**

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**Job Narrative**  
**880-1551-1**

**Receipt**

The samples were received on 4/23/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**GC VOA**

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

**GC Semi VOA**

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

**HPLC/IC**

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



## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-4 (0'-1')

Lab Sample ID: 880-1551-1

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 | 04/24/21 12:17 | 04/24/21 19:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 108       |           | 70 - 130 | 04/24/21 12:17 | 04/24/21 19:19 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 09:34 | 1       |
| Diesel Range Organics (Over C10-C28) | 316    | F1        | 49.9 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 09:34 | 1       |
| Oil Range Organics (Over C28-C36)    | 97.7   |           | 49.9 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 09:34 | 1       |
| Total TPH                            | 414    |           | 49.9 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 09:34 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 04/23/21 13:47 | 04/26/21 09:34 | 1       |
| o-Terphenyl    | 99        |           | 70 - 130 | 04/23/21 13:47 | 04/26/21 09:34 | 1       |

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Chloride | 4750   |           | 101 |     | mg/Kg |   |          | 04/23/21 18:40 | 20      |

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-1551-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 19:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 04/24/21 12:17 | 04/24/21 19:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105       |           | 70 - 130 | 04/24/21 12:17 | 04/24/21 19:40 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-1551-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 98        |           | 70 - 130 |     |       |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |     |       |   | 04/23/21 13:47 | 04/26/21 10:38 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 1250   |           | 25.1 |     | mg/Kg |   |          | 04/23/21 18:55 | 5       |

## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-1551-1                        | AH-4 (0'-1')           | 114                                            | 108               |
| 880-1551-2                        | AH-5 (0'-1')           | 113                                            | 105               |
| LCS 880-2278/1-A                  | Lab Control Sample     | 98                                             | 104               |
| LCSD 880-2278/2-A                 | Lab Control Sample Dup | 99                                             | 104               |
| MB 880-2278/5-A                   | Method Blank           | 98                                             | 102               |
| <b>Surrogate Legend</b>           |                        |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                        |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                        |                                                |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID           | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-1551-1              | AH-4 (0'-1')           | 101                                            | 99                |
| 880-1551-1 MS           | AH-4 (0'-1')           | 102                                            | 91                |
| 880-1551-1 MSD          | AH-4 (0'-1')           | 115                                            | 95                |
| 880-1551-2              | AH-5 (0'-1')           | 98                                             | 96                |
| LCS 880-2228/2-A        | Lab Control Sample     | 111                                            | 102               |
| LCSD 880-2228/3-A       | Lab Control Sample Dup | 103                                            | 98                |
| MB 880-2228/1-A         | Method Blank           | 111                                            | 115               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2278/5-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 04/24/21 12:17 | 04/24/21 16:48 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 | 04/24/21 12:17 | 04/24/21 16:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102          |              | 70 - 130 | 04/24/21 12:17 | 04/24/21 16:48 | 1       |

Lab Sample ID: LCS 880-2278/1-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09172    |               | mg/Kg |   | 92   | 70 - 130     |
| Toluene             | 0.100       | 0.09493    |               | mg/Kg |   | 95   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1003     |               | mg/Kg |   | 100  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2034     |               | mg/Kg |   | 102  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09964    |               | mg/Kg |   | 100  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2278/2-A

Matrix: Solid

Analysis Batch: 2279

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2278

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09080     |                | mg/Kg |   | 91   | 70 - 130     | 1   | 35        |
| Toluene             | 0.100       | 0.09385     |                | mg/Kg |   | 94   | 70 - 130     | 1   | 35        |
| Ethylbenzene        | 0.100       | 0.09846     |                | mg/Kg |   | 98   | 70 - 130     | 2   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2009      |                | mg/Kg |   | 100  | 70 - 130     | 1   | 35        |
| o-Xylene            | 0.100       | 0.09914     |                | mg/Kg |   | 99   | 70 - 130     | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 99             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-2228/1-A

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2228

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 08:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 08:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 08:31 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 04/23/21 13:47 | 04/26/21 08:31 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 111          |              | 70 - 130 | 04/23/21 13:47 | 04/26/21 08:31 | 1       |
| o-Terphenyl    | 115          |              | 70 - 130 | 04/23/21 13:47 | 04/26/21 08:31 | 1       |

Lab Sample ID: LCS 880-2228/2-A

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2228

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1174       |               | mg/Kg |   | 117  | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 1036       |               | mg/Kg |   | 104  | 70 - 130     |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 111           |               | 70 - 130 |
| o-Terphenyl    | 102           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2228/3-A

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2228

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1125        |                | mg/Kg |   | 112  | 70 - 130     | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1013        |                | mg/Kg |   | 101  | 70 - 130     | 2   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 103            |                | 70 - 130 |
| o-Terphenyl    | 98             |                | 70 - 130 |

Lab Sample ID: 880-1551-1 MS

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: AH-4 (0'-1')

Prep Type: Total/NA

Prep Batch: 2228

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 998         | 1114      |              | mg/Kg |   | 112  | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 316           | F1               | 998         | 1006      | F1           | mg/Kg |   | 69   | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1551-1 MS

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: AH-4 (0'-1')

Prep Type: Total/NA

Prep Batch: 2228

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 102       |           | 70 - 130 |
| o-Terphenyl    | 91        |           | 70 - 130 |

Lab Sample ID: 880-1551-1 MSD

Matrix: Solid

Analysis Batch: 2306

Client Sample ID: AH-4 (0'-1')

Prep Type: Total/NA

Prep Batch: 2228

|                                      | Sample    | Sample    | Spike    | MSD    | MSD       |       |   |      | %Rec.    |     | RPD   |
|--------------------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result    | Qualifier | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 998      | 1289   |           | mg/Kg |   | 129  | 70 - 130 | 15  | 20    |
| Diesel Range Organics (Over C10-C28) | 316       | F1        | 998      | 1086   |           | mg/Kg |   | 77   | 70 - 130 | 8   | 20    |
|                                      | MSD       | MSD       |          |        |           |       |   |      |          |     |       |
| Surrogate                            | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |     |       |
| 1-Chlorooctane                       | 115       |           | 70 - 130 |        |           |       |   |      |          |     |       |
| o-Terphenyl                          | 95        |           | 70 - 130 |        |           |       |   |      |          |     |       |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2232/1-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Method Blank

Prep Type: Soluble

|          | MB     | MB        |      |     |       |   |          |                |         |  |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|--|
| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |  |
| Chloride | <5.00  | U         | 5.00 |     | mg/Kg |   |          | 04/23/21 18:25 | 1       |  |

Lab Sample ID: LCS 880-2232/2-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Lab Control Sample

Prep Type: Soluble

|          | Spike | LCS    | LCS       |       |   |      |          | %Rec. |  |  |
|----------|-------|--------|-----------|-------|---|------|----------|-------|--|--|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |       |  |  |
| Chloride | 250   | 252.5  |           | mg/Kg |   | 101  | 90 - 110 |       |  |  |

Lab Sample ID: LCSD 880-2232/3-A

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

|          | Spike | LCSD   | LCSD      |       |   |      |          | %Rec. |       | RPD |
|----------|-------|--------|-----------|-------|---|------|----------|-------|-------|-----|
| Analyte  | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD   | Limit |     |
| Chloride | 250   | 256.4  |           | mg/Kg |   | 103  | 90 - 110 | 2     | 20    |     |

Lab Sample ID: 880-1551-1 MS

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: AH-4 (0'-1')

Prep Type: Soluble

|          | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec.    |  |  |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|--|
| Analyte  | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Chloride | 4750   |           | 253   | 10990  | 4         | mg/Kg |   | 2471 | 90 - 110 |  |  |

Eurofins Xenco, Midland



## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-1551-1 MSD

Matrix: Solid

Analysis Batch: 2258

Client Sample ID: AH-4 (0'-1')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 4750             |                     | 253            | 10800         | 4                | mg/Kg |   | 2396 | 90 - 110        | 2   | 20           |

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

## GC VOA

## Prep Batch: 2278

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1551-1        | AH-4 (0'-1')           | Total/NA  | Solid  | 5035   |            |
| 880-1551-2        | AH-5 (0'-1')           | Total/NA  | Solid  | 5035   |            |
| MB 880-2278/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2278/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2278/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2279

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-1551-1        | AH-4 (0'-1')           | Total/NA  | Solid  | 8021B  | 2278       |
| 880-1551-2        | AH-5 (0'-1')           | Total/NA  | Solid  | 8021B  | 2278       |
| MB 880-2278/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2278       |
| LCS 880-2278/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2278       |
| LCSD 880-2278/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2278       |

## GC Semi VOA

## Prep Batch: 2228

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 880-1551-1        | AH-4 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1551-2        | AH-5 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-2228/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-2228/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-2228/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1551-1 MS     | AH-4 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-1551-1 MSD    | AH-4 (0'-1')           | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 2306

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-1551-1        | AH-4 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2228       |
| 880-1551-2        | AH-5 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2228       |
| MB 880-2228/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 2228       |
| LCS 880-2228/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 2228       |
| LCSD 880-2228/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 2228       |
| 880-1551-1 MS     | AH-4 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2228       |
| 880-1551-1 MSD    | AH-4 (0'-1')           | Total/NA  | Solid  | 8015B NM | 2228       |

## HPLC/IC

## Leach Batch: 2232

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-1551-1        | AH-4 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| 880-1551-2        | AH-5 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| MB 880-2232/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-2232/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-2232/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-1551-1 MS     | AH-4 (0'-1')           | Soluble   | Solid  | DI Leach |            |
| 880-1551-1 MSD    | AH-4 (0'-1')           | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 2258

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-1551-1    | AH-4 (0'-1')     | Soluble   | Solid  | 300.0  | 2232       |
| 880-1551-2    | AH-5 (0'-1')     | Soluble   | Solid  | 300.0  | 2232       |

Eurofins Xenco, Midland

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

## HPLC/IC (Continued)

## Analysis Batch: 2258 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| MB 880-2232/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 2232       |
| LCS 880-2232/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 2232       |
| LCSD 880-2232/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 2232       |
| 880-1551-1 MS     | AH-4 (0'-1')           | Soluble   | Solid  | 300.0  | 2232       |
| 880-1551-1 MSD    | AH-4 (0'-1')           | Soluble   | Solid  | 300.0  | 2232       |

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

Client Sample ID: AH-4 (0'-1')

Lab Sample ID: 880-1551-1

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2278         | 04/24/21 12:17       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2279         | 04/24/21 19:19       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2228         | 04/23/21 13:47       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2306         | 04/26/21 09:34       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 20              | 2258         | 04/23/21 18:40       | WP      | XM  |

Client Sample ID: AH-5 (0'-1')

Lab Sample ID: 880-1551-2

Date Collected: 04/22/21 00:00

Matrix: Solid

Date Received: 04/23/21 12:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2278         | 04/24/21 12:17       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2279         | 04/24/21 19:40       | KL      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2228         | 04/23/21 13:47       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2306         | 04/26/21 10:38       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2232         | 04/23/21 14:05       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2258         | 04/23/21 18:55       | WP      | XM  |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

Laboratory: Eurofins Xenco, Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XM         |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XM         |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XM         |
| 5035        | Closed System Purge and Trap       | SW846    | XM         |
| 8015NM Prep | Microextraction                    | SW846    | XM         |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XM         |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

Eurofins Xenco, Midland



## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-1551-1  
SDG: Eddy County, New Mexico

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 880-1551-1    | AH-4 (0'-1')     | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |
| 880-1551-2    | AH-5 (0'-1')     | Solid  | 04/22/21 00:00 | 04/23/21 12:00 |          |

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Analysis Request of Chain of Custody Record



Tetra Tech



880-1551 Chain of Custody

01 West Wall Street, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

880-1551

Client Name: EOG

Site Manager: Paula TocoraAlonso

Project Name: Sosa Federal #1

Contact Info:

Email  
paula.tocoraalonso@tetratech.com

Project Location: Eddy County, New Mexico

Project #:

212C-MD-02419, Task 3400

Invoice to: EOG James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Joe Tyler

Comments:

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB #  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING

MATRIX

PRESERVATIVE METHOD

# CONTAINERS

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol 8260B / 624

GC/MS Semi Vol 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 300 0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

AH-4 (0-1)

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

NONE

AH-5 (0-1)

DATE

TIME

Relinquished by

Date

Time

Received by

Date

Time

Relinquished by

Date

Time

Received by

Date

Time

Relinquished by

Date

Time

Received by

Date

Time

LAB USE ONLY

REMARKS:

☐ Standard

☒ RUSH

☒ Same Day

24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature  
0.6/1.0

+0.5

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-1551-1

SDG Number: Eddy County, New Mexico

Login Number: 1551

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

| 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.                                       | False  | No sample times |
| Appropriate sample containers are used.                                          | True   |                 |
| Sample bottles are completely filled.                                            | True   |                 |
| Sample Preservation Verified.                                                    | N/A    |                 |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                 |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                 |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-2355-1

Laboratory Sample Delivery Group: Eddy County, New Mexico  
Client Project/Site: Sosa Federal #1

**For:**

Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/24/2021 4:25:04 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Laboratory Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1-       | Surrogate recovery exceeds control limits, low biased.   |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

Eurofins Xenco, Midland



## Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

**Job ID: 880-2355-1****Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative  
880-2355-1****Receipt**

The samples were received on 5/21/2021 9:46 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-9 (8-9) (880-2355-27) and SW-12 (3-4) (880-2355-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-2 (15-16) (880-2355-20). 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.

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3339 and analytical batch 880-3369 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-3369 recovered above the upper control limit for Diesel Range Organics (Over C10-C28) The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The samples associated with this CCV that had a detection in this range were only reported if there were multiple runs to confirm.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 880-3361 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: SW-3 (15-16) (880-2355-21), SW-4 (5-6) (880-2355-22), SW-5 (5-6) (880-2355-23), SW-6 (5-6) (880-2355-24), SW-7 (5-6) (880-2355-25), SW-8 (8-9) (880-2355-26), SW-9 (8-9) (880-2355-27), SW-10 (8-9) (880-2355-28), SW-11 (3-4) (880-2355-29) and SW-12 (3-4) (880-2355-30).

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

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (16-17)

Lab Sample ID: 880-2355-1

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F2 F1   | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| Toluene             | <0.00199 | U F2 F1   | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| Ethylbenzene        | <0.00199 | U F2 F1   | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F2 F1   | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| o-Xylene            | <0.00199 | U F2 F1   | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| Xylenes, Total      | <0.00398 | U F2 F1   | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| Total BTEX          | <0.00398 | U F2 F1   | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:22 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:22 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:22 | 1       |

## Method: 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 F1 F2   | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 16:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U F2      | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 16:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 16:49 | 1       |
| Total TPH                            | <49.9  | U F2      | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 16:49 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102       |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 16:49 | 1       |
| o-Terphenyl    | 94        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 16:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 26.5   |           | 4.96 |     | mg/Kg |   |          | 05/23/21 22:15 | 1       |

Client Sample ID: BH-2 (16-17)

Lab Sample ID: 880-2355-2

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:43 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:43 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:43 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (16-17)

Lab Sample ID: 880-2355-2

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |
| Total TPH                            | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 72        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |
| o-Terphenyl                          | 64        | S1-       | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 17:52 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 30.6   |           | 4.98 |     | mg/Kg |   |          | 05/23/21 22:30 | 1       |

Client Sample ID: BH-3 (16-17)

Lab Sample ID: 880-2355-3

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| Xylenes, Total              | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| Total BTEX                  | <0.00399  | U         | 0.00399  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 13:03 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |
| Total TPH                            | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 74        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |
| o-Terphenyl                          | 67        | S1-       | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 18:13 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 24.3   |           | 4.99 |     | mg/Kg |   |          | 05/23/21 22:35 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-4 (16-17)

Lab Sample ID: 880-2355-4

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:23 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 13:23 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 13:23 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 18:34 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:34 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:34 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:34 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 73        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 18:34 | 1       |
| o-Terphenyl    | 67        | S1-       | 70 - 130 | 05/21/21 10:45 | 05/22/21 18:34 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 36.7   |           | 5.04 |     | mg/Kg |   |          | 05/23/21 22:41 | 1       |

Client Sample ID: BH-5 (16-17)

Lab Sample ID: 880-2355-5

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 13:44 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 13:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 13:44 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-5 (16-17)

Lab Sample ID: 880-2355-5

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 85        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |
| o-Terphenyl                          | 77        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 18:55 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 34.3   |           | 5.05 |     | mg/Kg |   |          | 05/23/21 22:46 | 1       |

Client Sample ID: BH-6 (16-17)

Lab Sample ID: 880-2355-6

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| Toluene                     | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| Ethylbenzene                | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| m-Xylene & p-Xylene         | <0.00404  | U         | 0.00404  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| o-Xylene                    | <0.00202  | U         | 0.00202  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| Xylenes, Total              | <0.00404  | U         | 0.00404  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| Total BTEX                  | <0.00404  | U         | 0.00404  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95        |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 97        |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 14:04 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 81        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |
| o-Terphenyl                          | 75        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 19:16 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 27.1   |           | 4.97 |     | mg/Kg |   |          | 05/23/21 23:01 | 1       |

Eurofins Xenco, Midland

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-7 (16-17)

Lab Sample ID: 880-2355-7

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:25 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 14:25 | 1       |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 14:25 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 19:37 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:37 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:37 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 79        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 19:37 | 1       |
| o-Terphenyl    | 73        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 19:37 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 31.4   |           | 4.98 |     | mg/Kg |   |          | 05/23/21 23:06 | 1       |

Client Sample ID: BH-8 (16-17)

Lab Sample ID: 880-2355-8

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 14:45 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 14:45 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 14:45 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-8 (16-17)

Lab Sample ID: 880-2355-8

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 84        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |
| o-Terphenyl                          | 79        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 19:58 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 27.1   |           | 4.99 |     | mg/Kg |   |          | 05/23/21 23:12 | 1       |

Client Sample ID: BH-9 (6-7)

Lab Sample ID: 880-2355-9

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| Total BTEX                  | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96        |           | 70 - 130 |     |       |   | 05/24/21 08:30 | 05/24/21 15:05 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 81        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |
| o-Terphenyl                          | 77        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 20:19 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 16.3   |           | 4.95 |     | mg/Kg |   |          | 05/23/21 23:17 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-10 (6-7)

Lab Sample ID: 880-2355-10

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 15:26 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 15:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 05/24/21 08:30 | 05/24/21 15:26 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 20:40 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:40 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:40 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 20:40 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 20:40 | 1       |
| o-Terphenyl    | 81        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 20:40 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 18.9   |           | 4.95 |     | mg/Kg |   |          | 05/23/21 23:22 | 1       |

Client Sample ID: BH-11 (6-7)

Lab Sample ID: 880-2355-11

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| Total BTEX          | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:11 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 12:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 129       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 12:11 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-11 (6-7)

Lab Sample ID: 880-2355-11

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |
| Total TPH                            | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 21:22 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 94.3   |           | 4.95 |     | mg/Kg |   |          | 05/23/21 23:27 | 1       |

Client Sample ID: BH-12 (9-10)

Lab Sample ID: 880-2355-12

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| Total BTEX                  | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 128       |           | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 12:32 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 78        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |
| o-Terphenyl                          | 69        | S1-       | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 21:43 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 22.5   |           | 5.05 |     | mg/Kg |   |          | 05/23/21 23:43 | 1       |

Eurofins Xenco, Midland

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-13 (9-10)

Lab Sample ID: 880-2355-13

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 12:52 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 12:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 134       | S1+       | 70 - 130 | 05/24/21 08:38 | 05/24/21 12:52 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 22:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:04 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:04 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 22:04 | 1       |
| o-Terphenyl    | 76        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 22:04 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 23.9   |           | 5.04 |     | mg/Kg |   |          | 05/23/21 23:48 | 1       |

Client Sample ID: BH-14 (9-10)

Lab Sample ID: 880-2355-14

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| Total BTEX          | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 13:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 125       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 13:13 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-14 (9-10)

Lab Sample ID: 880-2355-14

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 83        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |
| o-Terphenyl                          | 76        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 22:25 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 24.1   |           | 5.02 |     | mg/Kg |   |          | 05/24/21 00:03 | 1       |

Client Sample ID: BH-15 (4-5)

Lab Sample ID: 880-2355-15

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| m-Xylene & p-Xylene         | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| Xylenes, Total              | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| Total BTEX                  | <0.00397  | U         | 0.00397  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 111       |           | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 138       | S1+       | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 13:34 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 80        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |
| o-Terphenyl                          | 74        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 22:45 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 22.4   |           | 4.95 |     | mg/Kg |   |          | 05/24/21 00:08 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: BH-16 (4-5)

Lab Sample ID: 880-2355-16

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 13:55 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 13:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 127       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 13:55 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 23:06 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:06 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:06 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:06 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 23:06 | 1       |
| o-Terphenyl    | 78        |           | 70 - 130 | 05/21/21 10:45 | 05/22/21 23:06 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 21.4   |           | 4.99 |     | mg/Kg |   |          | 05/24/21 00:14 | 1       |

Client Sample ID: 1 SW-1 (4-5)

Lab Sample ID: 880-2355-17

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| Total BTEX          | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 14:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 120       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 14:15 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: 1 SW-1 (4-5)

Lab Sample ID: 880-2355-17

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |
| o-Terphenyl                          | 85        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 23:27 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 23.0   |           | 5.01 |     | mg/Kg |   |          | 05/24/21 00:19 | 1       |

## Client Sample ID: 1 SW-2 (4-5)

Lab Sample ID: 880-2355-18

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| Xylenes, Total              | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| Total BTEX                  | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 129       |           | 70 - 130 |     |       |   | 05/24/21 08:38 | 05/24/21 14:36 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |
| o-Terphenyl                          | 89        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/22/21 23:48 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 13.9   |           | 5.03 |     | mg/Kg |   |          | 05/24/21 00:24 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (15-16)

Lab Sample ID: 880-2355-19

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 14:57 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 14:57 | 1       |
| 1,4-Difluorobenzene (Surr)  | 110       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 14:57 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/23/21 00:09 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:09 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:09 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:09 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 89        |           | 70 - 130 | 05/21/21 10:45 | 05/23/21 00:09 | 1       |
| o-Terphenyl    | 82        |           | 70 - 130 | 05/21/21 10:45 | 05/23/21 00:09 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 184    |           | 5.05 |     | mg/Kg |   |          | 05/24/21 00:29 | 1       |

Client Sample ID: SW-2 (15-16)

Lab Sample ID: 880-2355-20

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | 0.00208  |           | 0.00202 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| m-Xylene & p-Xylene | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| Xylenes, Total      | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| Total BTEX          | <0.00404 | U         | 0.00404 |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 15:17 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 15:17 | 1       |
| 1,4-Difluorobenzene (Surr)  | 123       |           | 70 - 130 | 05/24/21 08:38 | 05/24/21 15:17 | 1       |

## Method: 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 |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (15-16)

Lab Sample ID: 880-2355-20

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |
| o-Terphenyl                          | 88        |           | 70 - 130 |     |       |   | 05/21/21 10:45 | 05/23/21 00:30 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 178    |           | 4.98 |     | mg/Kg |   |          | 05/24/21 00:34 | 1       |

Client Sample ID: SW-3 (15-16)

Lab Sample ID: 880-2355-21

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U F1 F2   | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| Toluene                     | <0.00200  | U F1 F2   | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| Ethylbenzene                | <0.00200  | U F1 F2   | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| m-Xylene & p-Xylene         | <0.00399  | U F1 F2   | 0.00399  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| o-Xylene                    | <0.00200  | U F1 F2   | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| Xylenes, Total              | <0.00399  | U F1 F2   | 0.00399  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| Total BTEX                  | <0.00399  | U F1 F2   | 0.00399  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |
| 1,4-Difluorobenzene (Surr)  | 117       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 11:06 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 95        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |
| o-Terphenyl                          | 87        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 02:14 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 75.3   | F1        | 4.96 |     | mg/Kg |   |          | 05/21/21 17:36 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-4 (5-6)

Lab Sample ID: 880-2355-22

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| Total BTEX          | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:27 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 11:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 134       | S1+       | 70 - 130 | 05/21/21 10:27 | 05/22/21 11:27 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 03:17 | 1       |
| Diesel Range Organics (Over C10-C28) | 54.2   |           | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:17 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:17 | 1       |
| Total TPH                            | 54.2   |           | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 50        | S1-       | 70 - 130 | 05/21/21 11:01 | 05/23/21 03:17 | 1       |
| o-Terphenyl    | 88        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 03:17 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.5   |           | 4.98 |     | mg/Kg |   |          | 05/21/21 17:51 | 1       |

Client Sample ID: SW-5 (5-6)

Lab Sample ID: 880-2355-23

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| Total BTEX          | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 11:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98        |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 11:48 | 1       |
| 1,4-Difluorobenzene (Surr)  | 124       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 11:48 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (5-6)

Lab Sample ID: 880-2355-23

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |
| Total TPH                            | <49.8     | U         | 49.8     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 102       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |
| o-Terphenyl                          | 94        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 03:37 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 13.8   |           | 5.00 |     | mg/Kg |   |          | 05/21/21 17:57 | 1       |

Client Sample ID: SW-6 (5-6)

Lab Sample ID: 880-2355-24

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| Total BTEX                  | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 122       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 12:08 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 109       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |
| o-Terphenyl                          | 100       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 03:58 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 12.2   |           | 4.99 |     | mg/Kg |   |          | 05/21/21 18:02 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (5-6)

Lab Sample ID: 880-2355-25

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:29 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 12:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 125       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 12:29 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 305    |           | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:20 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:20 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:20 | 1       |
| Total TPH                            | 305    |           | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:20 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 101       |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 04:20 | 1       |
| o-Terphenyl    | 92        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 04:20 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 44.1   |           | 4.95 |     | mg/Kg |   |          | 05/21/21 18:07 | 1       |

Client Sample ID: SW-8 (8-9)

Lab Sample ID: 880-2355-26

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 12:50 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 12:50 | 1       |
| 1,4-Difluorobenzene (Surr)  | 126       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 12:50 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-8 (8-9)

Lab Sample ID: 880-2355-26

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 92        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |
| o-Terphenyl                          | 82        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 04:41 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 32.4   |           | 4.95 |     | mg/Kg |   |          | 05/21/21 18:22 | 1       |

Client Sample ID: SW-9 (8-9)

Lab Sample ID: 880-2355-27

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| Toluene                     | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| Ethylbenzene                | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| m-Xylene & p-Xylene         | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| o-Xylene                    | <0.00198  | U         | 0.00198  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| Xylenes, Total              | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| Total BTEX                  | <0.00396  | U         | 0.00396  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 110       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |
| 1,4-Difluorobenzene (Surr)  | 123       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 13:11 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 106       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |
| o-Terphenyl                          | 96        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 05:02 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 36.9   |           | 5.04 |     | mg/Kg |   |          | 05/21/21 18:28 | 1       |

Eurofins Xenco, Midland

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-10 (8-9)

Lab Sample ID: 880-2355-28

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| Total BTEX          | <0.00396 | U         | 0.00396 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:31 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 13:31 | 1       |
| 1,4-Difluorobenzene (Surr)  | 122       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 13:31 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 05:22 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:22 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:22 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:22 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 05:22 | 1       |
| o-Terphenyl    | 86        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 05:22 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 41.2   |           | 5.02 |     | mg/Kg |   |          | 05/21/21 18:33 | 1       |

Client Sample ID: SW-11 (3-4)

Lab Sample ID: 880-2355-29

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| Total BTEX          | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 13:52 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 107       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 13:52 | 1       |
| 1,4-Difluorobenzene (Surr)  | 129       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 13:52 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-11 (3-4)

Lab Sample ID: 880-2355-29

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |
| o-Terphenyl                          | 95        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 05:43 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 33.3   |           | 4.98 |     | mg/Kg |   |          | 05/21/21 18:38 | 1       |

Client Sample ID: SW-12 (3-4)

Lab Sample ID: 880-2355-30

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| Total BTEX                  | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 131       | S1+       | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 14:13 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |
| Total TPH                            | <50.0     | U         | 50.0     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |
| o-Terphenyl                          | 91        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 06:04 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 57.9   |           | 5.00 |     | mg/Kg |   |          | 05/21/21 18:43 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-13 (3-4)

Lab Sample ID: 880-2355-31

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| Xylenes, Total      | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| Total BTEX          | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:38 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 96        |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 15:38 | 1       |
| 1,4-Difluorobenzene (Surr)  | 123       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 15:38 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 06:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:46 | 1       |
| Total TPH                            | <49.8  | U         | 49.8 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 06:46 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 06:46 | 1       |
| o-Terphenyl    | 91        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 06:46 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 44.7   |           | 5.00 |     | mg/Kg |   |          | 05/21/21 18:48 | 1       |

Client Sample ID: SW-14 (3-4)

Lab Sample ID: 880-2355-32

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| Total BTEX          | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 15:59 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 15:59 | 1       |
| 1,4-Difluorobenzene (Surr)  | 122       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 15:59 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-14 (3-4)

Lab Sample ID: 880-2355-32

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 103       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |
| o-Terphenyl                          | 93        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 07:07 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 41.7   |           | 4.95 |     | mg/Kg |   |          | 05/21/21 19:04 | 1       |

Client Sample ID: SW-15 (3-4)

Lab Sample ID: 880-2355-33

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| Total BTEX                  | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 121       |           | 70 - 130 |     |       |   | 05/21/21 10:27 | 05/22/21 16:19 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |
| Total TPH                            | <49.9     | U         | 49.9     |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 105       |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |
| o-Terphenyl                          | 95        |           | 70 - 130 |     |       |   | 05/21/21 11:01 | 05/23/21 07:28 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 52.9   |           | 4.96 |     | mg/Kg |   |          | 05/21/21 19:09 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-16 (3-4)

Lab Sample ID: 880-2355-34

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| Total BTEX          | <0.00403 | U         | 0.00403 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 16:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 16:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 122       |           | 70 - 130 | 05/21/21 10:27 | 05/22/21 16:40 | 1       |

## Method: 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 |   | 05/21/21 11:01 | 05/23/21 07:49 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:49 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:49 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 07:49 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 94        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 07:49 | 1       |
| o-Terphenyl    | 85        |           | 70 - 130 | 05/21/21 11:01 | 05/23/21 07:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 51.5   |           | 5.00 |     | mg/Kg |   |          | 05/21/21 19:24 | 1       |

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## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## 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) |
| 880-2355-1        | BH-1 (16-17)           | 93                                             | 99                |
| 880-2355-1 MS     | BH-1 (16-17)           | 95                                             | 103               |
| 880-2355-1 MSD    | BH-1 (16-17)           | 104                                            | 97                |
| 880-2355-2        | BH-2 (16-17)           | 104                                            | 97                |
| 880-2355-3        | BH-3 (16-17)           | 97                                             | 100               |
| 880-2355-4        | BH-4 (16-17)           | 89                                             | 98                |
| 880-2355-5        | BH-5 (16-17)           | 96                                             | 99                |
| 880-2355-6        | BH-6 (16-17)           | 95                                             | 97                |
| 880-2355-7        | BH-7 (16-17)           | 94                                             | 99                |
| 880-2355-8        | BH-8 (16-17)           | 98                                             | 100               |
| 880-2355-9        | BH-9 (6-7)             | 94                                             | 96                |
| 880-2355-10       | BH-10 (6-7)            | 94                                             | 100               |
| 880-2355-11       | BH-11 (6-7)            | 97                                             | 129               |
| 880-2355-11 MS    | BH-11 (6-7)            | 89                                             | 113               |
| 880-2355-11 MSD   | BH-11 (6-7)            | 94                                             | 112               |
| 880-2355-12       | BH-12 (9-10)           | 98                                             | 128               |
| 880-2355-13       | BH-13 (9-10)           | 105                                            | 134 S1+           |
| 880-2355-14       | BH-14 (9-10)           | 96                                             | 125               |
| 880-2355-15       | BH-15 (4-5)            | 111                                            | 138 S1+           |
| 880-2355-16       | BH-16 (4-5)            | 98                                             | 127               |
| 880-2355-17       | 1 SW-1 (4-5)           | 98                                             | 120               |
| 880-2355-18       | 1 SW-2 (4-5)           | 94                                             | 129               |
| 880-2355-19       | SW-1 (15-16)           | 105                                            | 110               |
| 880-2355-20       | SW-2 (15-16)           | 113                                            | 123               |
| 880-2355-21       | SW-3 (15-16)           | 97                                             | 117               |
| 880-2355-21 MS    | SW-3 (15-16)           | 112                                            | 122               |
| 880-2355-21 MSD   | SW-3 (15-16)           | 99                                             | 118               |
| 880-2355-22       | SW-4 (5-6)             | 102                                            | 134 S1+           |
| 880-2355-23       | SW-5 (5-6)             | 98                                             | 124               |
| 880-2355-24       | SW-6 (5-6)             | 102                                            | 122               |
| 880-2355-25       | SW-7 (5-6)             | 105                                            | 125               |
| 880-2355-26       | SW-8 (8-9)             | 103                                            | 126               |
| 880-2355-27       | SW-9 (8-9)             | 110                                            | 123               |
| 880-2355-28       | SW-10 (8-9)            | 96                                             | 122               |
| 880-2355-29       | SW-11 (3-4)            | 107                                            | 129               |
| 880-2355-30       | SW-12 (3-4)            | 109                                            | 131 S1+           |
| 880-2355-31       | SW-13 (3-4)            | 96                                             | 123               |
| 880-2355-32       | SW-14 (3-4)            | 100                                            | 122               |
| 880-2355-33       | SW-15 (3-4)            | 104                                            | 121               |
| 880-2355-34       | SW-16 (3-4)            | 101                                            | 122               |
| LCS 880-3334/1-A  | Lab Control Sample     | 109                                            | 102               |
| LCS 880-3337/1-A  | Lab Control Sample     | 86                                             | 108               |
| LCS 880-3385/1-A  | Lab Control Sample     | 95                                             | 120               |
| LCSD 880-3334/2-A | Lab Control Sample Dup | 102                                            | 100               |
| LCSD 880-3337/2-A | Lab Control Sample Dup | 93                                             | 109               |
| LCSD 880-3385/2-A | Lab Control Sample Dup | 89                                             | 113               |
| MB 880-3333/5-A   | Method Blank           | 108                                            | 105               |
| MB 880-3334/5-A   | Method Blank           | 84                                             | 98                |
| MB 880-3337/5-A   | Method Blank           | 100                                            | 96                |

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## Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-2355-1

Project/Site: Sosa Federal #1

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                  | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| MB 880-3385/5-A                   | Method Blank     | 94                                             | 99                |
| <b>Surrogate Legend</b>           |                  |                                                |                   |
| BFB = 4-Bromofluorobenzene (Surr) |                  |                                                |                   |
| DFBZ = 1,4-Difluorobenzene (Surr) |                  |                                                |                   |

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

Matrix: Solid

Prep Type: Total/NA

|                  |                    | Percent Surrogate Recovery (Acceptance Limits) |                   |
|------------------|--------------------|------------------------------------------------|-------------------|
| Lab Sample ID    | Client Sample ID   | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-2355-1       | BH-1 (16-17)       | 102                                            | 94                |
| 880-2355-1 MS    | BH-1 (16-17)       | 92                                             | 77                |
| 880-2355-1 MSD   | BH-1 (16-17)       | 73                                             | 62 S1-            |
| 880-2355-2       | BH-2 (16-17)       | 72                                             | 64 S1-            |
| 880-2355-3       | BH-3 (16-17)       | 74                                             | 67 S1-            |
| 880-2355-4       | BH-4 (16-17)       | 73                                             | 67 S1-            |
| 880-2355-5       | BH-5 (16-17)       | 85                                             | 77                |
| 880-2355-6       | BH-6 (16-17)       | 81                                             | 75                |
| 880-2355-7       | BH-7 (16-17)       | 79                                             | 73                |
| 880-2355-8       | BH-8 (16-17)       | 84                                             | 79                |
| 880-2355-9       | BH-9 (6-7)         | 81                                             | 77                |
| 880-2355-10      | BH-10 (6-7)        | 85                                             | 81                |
| 880-2355-11      | BH-11 (6-7)        | 105                                            | 98                |
| 880-2355-12      | BH-12 (9-10)       | 78                                             | 69 S1-            |
| 880-2355-13      | BH-13 (9-10)       | 81                                             | 76                |
| 880-2355-14      | BH-14 (9-10)       | 83                                             | 76                |
| 880-2355-15      | BH-15 (4-5)        | 80                                             | 74                |
| 880-2355-16      | BH-16 (4-5)        | 83                                             | 78                |
| 880-2355-17      | 1 SW-1 (4-5)       | 92                                             | 85                |
| 880-2355-18      | 1 SW-2 (4-5)       | 96                                             | 89                |
| 880-2355-19      | SW-1 (15-16)       | 89                                             | 82                |
| 880-2355-20      | SW-2 (15-16)       | 92                                             | 88                |
| 880-2355-21      | SW-3 (15-16)       | 95                                             | 87                |
| 880-2355-21 MS   | SW-3 (15-16)       | 87                                             | 75                |
| 880-2355-21 MSD  | SW-3 (15-16)       | 95                                             | 82                |
| 880-2355-22      | SW-4 (5-6)         | 50 S1-                                         | 88                |
| 880-2355-23      | SW-5 (5-6)         | 102                                            | 94                |
| 880-2355-24      | SW-6 (5-6)         | 109                                            | 100               |
| 880-2355-25      | SW-7 (5-6)         | 101                                            | 92                |
| 880-2355-26      | SW-8 (8-9)         | 92                                             | 82                |
| 880-2355-27      | SW-9 (8-9)         | 106                                            | 96                |
| 880-2355-28      | SW-10 (8-9)        | 91                                             | 86                |
| 880-2355-29      | SW-11 (3-4)        | 100                                            | 95                |
| 880-2355-30      | SW-12 (3-4)        | 100                                            | 91                |
| 880-2355-31      | SW-13 (3-4)        | 99                                             | 91                |
| 880-2355-32      | SW-14 (3-4)        | 103                                            | 93                |
| 880-2355-33      | SW-15 (3-4)        | 105                                            | 95                |
| 880-2355-34      | SW-16 (3-4)        | 94                                             | 85                |
| LCS 880-3339/2-A | Lab Control Sample | 93                                             | 85                |

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## Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-2355-1

Project/Site: Sosa Federal #1

SDG: Eddy County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

|                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID     | Client Sample ID       | 1CO1<br>(70-130)                               | OTPH1<br>(70-130) |
| LCS 880-3342/2-A  | Lab Control Sample     | 96                                             | 89                |
| LCSD 880-3339/3-A | Lab Control Sample Dup | 93                                             | 86                |
| LCSD 880-3342/3-A | Lab Control Sample Dup | 97                                             | 90                |
| MB 880-3339/1-A   | Method Blank           | 96                                             | 96                |
| MB 880-3342/1-A   | Method Blank           | 100                                            | 100               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-3333/5-A

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3333

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 09:48 | 05/21/21 23:39 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108          |              | 70 - 130 | 05/21/21 09:48 | 05/21/21 23:39 | 1       |
| 1,4-Difluorobenzene (Surr)  | 105          |              | 70 - 130 | 05/21/21 09:48 | 05/21/21 23:39 | 1       |

Lab Sample ID: MB 880-3334/5-A

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3334

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/24/21 08:30 | 05/24/21 12:01 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 84           |              | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 05/24/21 08:30 | 05/24/21 12:01 | 1       |

Lab Sample ID: LCS 880-3334/1-A

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3334

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.08564    |               | mg/Kg |   | 86   | 70 - 130     |
| Toluene             | 0.100       | 0.08507    |               | mg/Kg |   | 85   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09337    |               | mg/Kg |   | 93   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1992     |               | mg/Kg |   | 100  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1013     |               | mg/Kg |   | 101  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 109           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102           |               | 70 - 130 |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-3334/2-A

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3334

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.08648     |                | mg/Kg |   | 86   | 70 - 130     | 1   | 35        |
| Toluene             | 0.100       | 0.08738     |                | mg/Kg |   | 87   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | 0.100       | 0.09345     |                | mg/Kg |   | 93   | 70 - 130     | 0   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1950      |                | mg/Kg |   | 98   | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.09702     |                | mg/Kg |   | 97   | 70 - 130     | 4   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 102            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 100            |                | 70 - 130 |

Lab Sample ID: 880-2355-1 MS

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: BH-1 (16-17)

Prep Type: Total/NA

Prep Batch: 3334

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00199      | U F2 F1          | 0.101       | 0.06597   | F1           | mg/Kg |   | 65   | 70 - 130     |
| Toluene             | <0.00199      | U F2 F1          | 0.101       | 0.04635   | F1           | mg/Kg |   | 46   | 70 - 130     |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.101       | 0.05209   | F1           | mg/Kg |   | 52   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.202       | 0.09628   | F1           | mg/Kg |   | 48   | 70 - 130     |
| o-Xylene            | <0.00199      | U F2 F1          | 0.101       | 0.06606   | F1           | mg/Kg |   | 65   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 95           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 |

Lab Sample ID: 880-2355-1 MSD

Matrix: Solid

Analysis Batch: 3386

Client Sample ID: BH-1 (16-17)

Prep Type: Total/NA

Prep Batch: 3334

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00199      | U F2 F1          | 0.0996      | 0.02489    | F2 F1         | mg/Kg |   | 25   | 70 - 130     | 90  | 35        |
| Toluene             | <0.00199      | U F2 F1          | 0.0996      | 0.01805    | F2 F1         | mg/Kg |   | 18   | 70 - 130     | 88  | 35        |
| Ethylbenzene        | <0.00199      | U F2 F1          | 0.0996      | 0.02513    | F2 F1         | mg/Kg |   | 25   | 70 - 130     | 70  | 35        |
| m-Xylene & p-Xylene | <0.00398      | U F2 F1          | 0.199       | 0.04817    | F2 F1         | mg/Kg |   | 24   | 70 - 130     | 67  | 35        |
| o-Xylene            | <0.00199      | U F2 F1          | 0.0996      | 0.03927    | F2 F1         | mg/Kg |   | 39   | 70 - 130     | 51  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 97            |               | 70 - 130 |

Lab Sample ID: MB 880-3337/5-A

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3337

| Analyte      | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene      | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| Toluene      | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| Ethylbenzene | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-3337/5-A

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3337

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/21/21 10:27 | 05/22/21 10:44 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 | 05/21/21 10:27 | 05/22/21 10:44 | 1       |
| 1,4-Difluorobenzene (Surr)  | 96           |              | 70 - 130 | 05/21/21 10:27 | 05/22/21 10:44 | 1       |

Lab Sample ID: LCS 880-3337/1-A

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3337

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.08749    |               | mg/Kg |   | 87   | 70 - 130     |
| Toluene             | 0.100       | 0.08877    |               | mg/Kg |   | 89   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.08153    |               | mg/Kg |   | 82   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1658     |               | mg/Kg |   | 83   | 70 - 130     |
| o-Xylene            | 0.100       | 0.08276    |               | mg/Kg |   | 83   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 86            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 108           |               | 70 - 130 |

Lab Sample ID: LCSD 880-3337/2-A

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3337

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09645     |                | mg/Kg |   | 96   | 70 - 130     | 10  | 35        |
| Toluene             | 0.100       | 0.1011      |                | mg/Kg |   | 101  | 70 - 130     | 13  | 35        |
| Ethylbenzene        | 0.100       | 0.09283     |                | mg/Kg |   | 93   | 70 - 130     | 13  | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1831      |                | mg/Kg |   | 92   | 70 - 130     | 10  | 35        |
| o-Xylene            | 0.100       | 0.09130     |                | mg/Kg |   | 91   | 70 - 130     | 10  | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 93             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109            |                | 70 - 130 |

Lab Sample ID: 880-2355-21 MS

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: SW-3 (15-16)

Prep Type: Total/NA

Prep Batch: 3337

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene             | <0.00200      | U F1 F2          | 0.100       | 0.01513   | F1           | mg/Kg |   | 13   | 70 - 130     |
| Toluene             | <0.00200      | U F1 F2          | 0.100       | 0.01109   | F1           | mg/Kg |   | 11   | 70 - 130     |
| Ethylbenzene        | <0.00200      | U F1 F2          | 0.100       | 0.01511   | F1           | mg/Kg |   | 15   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00399      | U F1 F2          | 0.201       | 0.02538   | F1           | mg/Kg |   | 13   | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-2355-21 MS

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: SW-3 (15-16)

Prep Type: Total/NA

Prep Batch: 3337

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| o-Xylene                    | <0.00200      | U F1 F2          | 0.100       | 0.02658   | F1           | mg/Kg |   | 26   | 70 - 130     |
|                             |               |                  |             |           |              |       |   |      |              |
| Surrogate                   | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 4-Bromofluorobenzene (Surr) | 112           |                  | 70 - 130    |           |              |       |   |      |              |
| 1,4-Difluorobenzene (Surr)  | 122           |                  | 70 - 130    |           |              |       |   |      |              |

Lab Sample ID: 880-2355-21 MSD

Matrix: Solid

Analysis Batch: 3318

Client Sample ID: SW-3 (15-16)

Prep Type: Total/NA

Prep Batch: 3337

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene                     | <0.00200      | U F1 F2          | 0.0994      | 0.07269    | F2            | mg/Kg |   | 71   | 70 - 130     | 131 | 35        |
| Toluene                     | <0.00200      | U F1 F2          | 0.0994      | 0.04626    | F1 F2         | mg/Kg |   | 47   | 70 - 130     | 123 | 35        |
| Ethylbenzene                | <0.00200      | U F1 F2          | 0.0994      | 0.05182    | F1 F2         | mg/Kg |   | 52   | 70 - 130     | 110 | 35        |
| m-Xylene & p-Xylene         | <0.00399      | U F1 F2          | 0.199       | 0.09227    | F1 F2         | mg/Kg |   | 46   | 70 - 130     | 114 | 35        |
| o-Xylene                    | <0.00200      | U F1 F2          | 0.0994      | 0.06601    | F1 F2         | mg/Kg |   | 66   | 70 - 130     | 85  | 35        |
|                             |               |                  |             |            |               |       |   |      |              |     |           |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr) | 99            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| 1,4-Difluorobenzene (Surr)  | 118           |                  | 70 - 130    |            |               |       |   |      |              |     |           |

Lab Sample ID: MB 880-3385/5-A

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3385

| Analyte                     | MB Result    | MB Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200     | U            | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| Toluene                     | <0.00200     | U            | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| Ethylbenzene                | <0.00200     | U            | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| m-Xylene & p-Xylene         | <0.00400     | U            | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| o-Xylene                    | <0.00200     | U            | 0.00200  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| Xylenes, Total              | <0.00400     | U            | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
| Total BTEX                  | <0.00400     | U            | 0.00400  |     | mg/Kg |   | 05/24/21 08:38 | 05/24/21 11:49 | 1       |
|                             |              |              |          |     |       |   |                |                |         |
| Surrogate                   | MB %Recovery | MB Qualifier | Limits   |     |       |   |                |                |         |
| 4-Bromofluorobenzene (Surr) | 94           |              | 70 - 130 |     |       |   |                |                |         |
| 1,4-Difluorobenzene (Surr)  | 99           |              | 70 - 130 |     |       |   |                |                |         |

Lab Sample ID: LCS 880-3385/1-A

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3385

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1006     |               | mg/Kg |   | 101  | 70 - 130     |
| Toluene             | 0.100       | 0.1039     |               | mg/Kg |   | 104  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1029     |               | mg/Kg |   | 103  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2025     |               | mg/Kg |   | 101  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09981    |               | mg/Kg |   | 100  | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

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

Lab Sample ID: LCSD 880-3385/2-A

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3385

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09114     |                | mg/Kg |   | 91   | 70 - 130     | 10  | 35        |
| Toluene             | 0.100       | 0.09703     |                | mg/Kg |   | 97   | 70 - 130     | 7   | 35        |
| Ethylbenzene        | 0.100       | 0.09520     |                | mg/Kg |   | 95   | 70 - 130     | 8   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1934      |                | mg/Kg |   | 97   | 70 - 130     | 5   | 35        |
| o-Xylene            | 0.100       | 0.09293     |                | mg/Kg |   | 93   | 70 - 130     | 7   | 35        |

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 |

Lab Sample ID: 880-2355-11 MS

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: BH-11 (6-7)

Prep Type: Total/NA

Prep Batch: 3385

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.101       | 0.08198   |              | mg/Kg |   | 81   | 70 - 130     |     |           |
| Toluene             | <0.00200      | U                | 0.101       | 0.07849   |              | mg/Kg |   | 78   | 70 - 130     |     |           |
| Ethylbenzene        | <0.00200      | U                | 0.101       | 0.07268   |              | mg/Kg |   | 72   | 70 - 130     |     |           |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.202       | 0.1423    |              | mg/Kg |   | 71   | 70 - 130     |     |           |
| o-Xylene            | <0.00200      | U                | 0.101       | 0.07243   |              | mg/Kg |   | 72   | 70 - 130     |     |           |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 89        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 113       |           | 70 - 130 |

Lab Sample ID: 880-2355-11 MSD

Matrix: Solid

Analysis Batch: 3387

Client Sample ID: BH-11 (6-7)

Prep Type: Total/NA

Prep Batch: 3385

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00200      | U                | 0.0996      | 0.07914    |               | mg/Kg |   | 79   | 70 - 130     | 4   | 35        |
| Toluene             | <0.00200      | U                | 0.0996      | 0.07600    |               | mg/Kg |   | 76   | 70 - 130     | 3   | 35        |
| Ethylbenzene        | <0.00200      | U                | 0.0996      | 0.07077    |               | mg/Kg |   | 71   | 70 - 130     | 3   | 35        |
| m-Xylene & p-Xylene | <0.00399      | U                | 0.199       | 0.1420     |               | mg/Kg |   | 71   | 70 - 130     | 0   | 35        |
| o-Xylene            | <0.00200      | U                | 0.0996      | 0.07096    |               | mg/Kg |   | 71   | 70 - 130     | 2   | 35        |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 94        |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112       |           | 70 - 130 |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: MB 880-3339/1-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3339

| 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 |   | 05/21/21 10:45 | 05/22/21 15:46 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 15:46 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 15:46 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 10:45 | 05/22/21 15:46 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 96           |              | 70 - 130 | 05/21/21 10:45 | 05/22/21 15:46 | 1       |
| o-Terphenyl    | 96           |              | 70 - 130 | 05/21/21 10:45 | 05/22/21 15:46 | 1       |

Lab Sample ID: LCS 880-3339/2-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3339

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 804.2      |               | mg/Kg |   | 80   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 886.1      |               | mg/Kg |   | 89   | 70 - 130     |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 93            |               | 70 - 130 |
| o-Terphenyl    | 85            |               | 70 - 130 |

Lab Sample ID: LCSD 880-3339/3-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3339

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 773.7       |                | mg/Kg |   | 77   | 70 - 130     | 4   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 900.0       |                | mg/Kg |   | 90   | 70 - 130     | 2   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 93             |                | 70 - 130 |
| o-Terphenyl    | 86             |                | 70 - 130 |

Lab Sample ID: 880-2355-1 MS

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: BH-1 (16-17)

Prep Type: Total/NA

Prep Batch: 3339

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U F1 F2          | 996         | 924.3     |              | mg/Kg |   | 91   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | <49.9         | U F2             | 996         | 1007      |              | mg/Kg |   | 101  | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: 880-2355-1 MS

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: BH-1 (16-17)

Prep Type: Total/NA

Prep Batch: 3339

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 77        |           | 70 - 130 |

Lab Sample ID: 880-2355-1 MSD

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: BH-1 (16-17)

Prep Type: Total/NA

Prep Batch: 3339

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U F1 F2          | 996         | 695.5      | F1 F2         | mg/Kg |   | 68   | 70 - 130     | 28  | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U F2             | 996         | 804.7      | F2            | mg/Kg |   | 81   | 70 - 130     | 22  | 20        |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 73        |           | 70 - 130 |
| o-Terphenyl    | 62        | S1-       | 70 - 130 |

Lab Sample ID: MB 880-3342/1-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3342

| 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 |   | 05/21/21 11:01 | 05/23/21 01:12 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 01:12 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 01:12 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 |     | mg/Kg |   | 05/21/21 11:01 | 05/23/21 01:12 | 1       |

|                | MB        | MB        |          |  |  |  | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|--|--|--|----------------|----------------|---------|
| Surrogate      | %Recovery | Qualifier | Limits   |  |  |  | 05/21/21 11:01 | 05/23/21 01:12 | 1       |
| 1-Chlorooctane | 100       |           | 70 - 130 |  |  |  | 05/21/21 11:01 | 05/23/21 01:12 | 1       |
| o-Terphenyl    | 100       |           | 70 - 130 |  |  |  | 05/21/21 11:01 | 05/23/21 01:12 | 1       |

Lab Sample ID: LCS 880-3342/2-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3342

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 814.7      |               | mg/Kg |   | 81   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 941.7      |               | mg/Kg |   | 94   | 70 - 130     |

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 96        |           | 70 - 130 |
| o-Terphenyl    | 89        |           | 70 - 130 |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCSD 880-3342/3-A

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3342

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 827.2          |                | mg/Kg |   | 83   | 70 - 130     | 2   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 950.9          |                | mg/Kg |   | 95   | 70 - 130     | 1   | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 1-Chlorooctane                       | 97             |                | 70 - 130       |       |   |      |              |     |           |
| o-Terphenyl                          | 90             |                | 70 - 130       |       |   |      |              |     |           |

Lab Sample ID: 880-2355-21 MS

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: SW-3 (15-16)

Prep Type: Total/NA

Prep Batch: 3342

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 996         | 847.0     |              | mg/Kg |   | 83   | 70 - 130     |     |           |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 996         | 997.5     |              | mg/Kg |   | 98   | 70 - 130     |     |           |
| Surrogate                            | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |     |           |
| 1-Chlorooctane                       | 87            |                  | 70 - 130    |           |              |       |   |      |              |     |           |
| o-Terphenyl                          | 75            |                  | 70 - 130    |           |              |       |   |      |              |     |           |

Lab Sample ID: 880-2355-21 MSD

Matrix: Solid

Analysis Batch: 3369

Client Sample ID: SW-3 (15-16)

Prep Type: Total/NA

Prep Batch: 3342

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9         | U                | 996         | 939.4      |               | mg/Kg |   | 92   | 70 - 130     | 10  | 20        |
| Diesel Range Organics (Over C10-C28) | <49.9         | U                | 996         | 1098       |               | mg/Kg |   | 108  | 70 - 130     | 10  | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 1-Chlorooctane                       | 95            |                  | 70 - 130    |            |               |       |   |      |              |     |           |
| o-Terphenyl                          | 82            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3343/1-A

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 05/23/21 21:59 | 1       |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

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

Lab Sample ID: LCS 880-3343/2-A

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 231.4      |               | mg/Kg |   | 93   | 90 - 110     |

Lab Sample ID: LCSD 880-3343/3-A

Matrix: Solid

Analysis Batch: 3352

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         | 232.0       |                | mg/Kg |   | 93   | 90 - 110     | 0   | 20        |

Lab Sample ID: 880-2355-1 MS

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: BH-1 (16-17)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 26.5          |                  | 248         | 288.6     |              | mg/Kg |   | 106  | 90 - 110     |

Lab Sample ID: 880-2355-1 MSD

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: BH-1 (16-17)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 26.5          |                  | 248         | 288.4      |               | mg/Kg |   | 106  | 90 - 110     | 0   | 20        |

Lab Sample ID: 880-2355-11 MS

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: BH-11 (6-7)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 94.3          |                  | 248         | 357.0     |              | mg/Kg |   | 106  | 90 - 110     |

Lab Sample ID: 880-2355-11 MSD

Matrix: Solid

Analysis Batch: 3352

Client Sample ID: BH-11 (6-7)

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 94.3          |                  | 248         | 356.1      |               | mg/Kg |   | 106  | 90 - 110     | 0   | 20        |

Lab Sample ID: MB 880-3344/1-A

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 05/21/21 17:20 | 1       |

Lab Sample ID: LCS 880-3344/2-A

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 256.8      |               | mg/Kg |   | 103  | 90 - 110     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-3344/3-A

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  |  |  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|--|--|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride |  |  | 250            | 252.0          |                   | mg/Kg |   | 101  | 90 - 110        | 2   | 20           |

Lab Sample ID: 880-2355-21 MS

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: SW-3 (15-16)

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|--|--|
| Chloride | 75.3             | F1                  | 248            | 354.7        | F1              | mg/Kg |   | 113  | 90 - 110        |  |  |

Lab Sample ID: 880-2355-21 MSD

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: SW-3 (15-16)

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 75.3             | F1                  | 248            | 338.9         |                  | mg/Kg |   | 106  | 90 - 110        | 5   | 20           |

Lab Sample ID: 880-2355-31 MS

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: SW-13 (3-4)

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |  |  |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|--|--|
| Chloride | 44.7             |                     | 250            | 299.1        |                 | mg/Kg |   | 102  | 90 - 110        |  |  |

Lab Sample ID: 880-2355-31 MSD

Matrix: Solid

Analysis Batch: 3361

Client Sample ID: SW-13 (3-4)

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 44.7             |                     | 250            | 288.5         |                  | mg/Kg |   | 98   | 90 - 110        | 4   | 20           |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## GC VOA

## Analysis Batch: 3318

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-21       | SW-3 (15-16)           | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-22       | SW-4 (5-6)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-23       | SW-5 (5-6)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-24       | SW-6 (5-6)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-25       | SW-7 (5-6)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-26       | SW-8 (8-9)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-27       | SW-9 (8-9)             | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-28       | SW-10 (8-9)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-29       | SW-11 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-30       | SW-12 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-31       | SW-13 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-32       | SW-14 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-33       | SW-15 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-34       | SW-16 (3-4)            | Total/NA  | Solid  | 8021B  | 3337       |
| MB 880-3333/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 3333       |
| MB 880-3337/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 3337       |
| LCS 880-3337/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 3337       |
| LCSD 880-3337/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-21 MS    | SW-3 (15-16)           | Total/NA  | Solid  | 8021B  | 3337       |
| 880-2355-21 MSD   | SW-3 (15-16)           | Total/NA  | Solid  | 8021B  | 3337       |

## Prep Batch: 3333

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-3333/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 3334

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-1        | BH-1 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-2        | BH-2 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-3        | BH-3 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-4        | BH-4 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-5        | BH-5 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-6        | BH-6 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-7        | BH-7 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-8        | BH-8 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-9        | BH-9 (6-7)             | Total/NA  | Solid  | 5035   |            |
| 880-2355-10       | BH-10 (6-7)            | Total/NA  | Solid  | 5035   |            |
| MB 880-3334/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-3334/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-3334/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-2355-1 MS     | BH-1 (16-17)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-1 MSD    | BH-1 (16-17)           | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 3337

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-2355-21   | SW-3 (15-16)     | Total/NA  | Solid  | 5035   |            |
| 880-2355-22   | SW-4 (5-6)       | Total/NA  | Solid  | 5035   |            |
| 880-2355-23   | SW-5 (5-6)       | Total/NA  | Solid  | 5035   |            |
| 880-2355-24   | SW-6 (5-6)       | Total/NA  | Solid  | 5035   |            |
| 880-2355-25   | SW-7 (5-6)       | Total/NA  | Solid  | 5035   |            |
| 880-2355-26   | SW-8 (8-9)       | Total/NA  | Solid  | 5035   |            |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## GC VOA (Continued)

## Prep Batch: 3337 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-27       | SW-9 (8-9)             | Total/NA  | Solid  | 5035   |            |
| 880-2355-28       | SW-10 (8-9)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-29       | SW-11 (3-4)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-30       | SW-12 (3-4)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-31       | SW-13 (3-4)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-32       | SW-14 (3-4)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-33       | SW-15 (3-4)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-34       | SW-16 (3-4)            | Total/NA  | Solid  | 5035   |            |
| MB 880-3337/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-3337/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-3337/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-2355-21 MS    | SW-3 (15-16)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-21 MSD   | SW-3 (15-16)           | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 3385

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-11       | BH-11 (6-7)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-12       | BH-12 (9-10)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-13       | BH-13 (9-10)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-14       | BH-14 (9-10)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-15       | BH-15 (4-5)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-16       | BH-16 (4-5)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-17       | 1 SW-1 (4-5)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-18       | 1 SW-2 (4-5)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-19       | SW-1 (15-16)           | Total/NA  | Solid  | 5035   |            |
| 880-2355-20       | SW-2 (15-16)           | Total/NA  | Solid  | 5035   |            |
| MB 880-3385/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-3385/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-3385/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-2355-11 MS    | BH-11 (6-7)            | Total/NA  | Solid  | 5035   |            |
| 880-2355-11 MSD   | BH-11 (6-7)            | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 3386

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-1        | BH-1 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-2        | BH-2 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-3        | BH-3 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-4        | BH-4 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-5        | BH-5 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-6        | BH-6 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-7        | BH-7 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-8        | BH-8 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-9        | BH-9 (6-7)             | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-10       | BH-10 (6-7)            | Total/NA  | Solid  | 8021B  | 3334       |
| MB 880-3334/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 3334       |
| LCS 880-3334/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 3334       |
| LCSD 880-3334/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-1 MS     | BH-1 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |
| 880-2355-1 MSD    | BH-1 (16-17)           | Total/NA  | Solid  | 8021B  | 3334       |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## GC VOA

## Analysis Batch: 3387

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-11       | BH-11 (6-7)            | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-12       | BH-12 (9-10)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-13       | BH-13 (9-10)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-14       | BH-14 (9-10)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-15       | BH-15 (4-5)            | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-16       | BH-16 (4-5)            | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-17       | 1 SW-1 (4-5)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-18       | 1 SW-2 (4-5)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-19       | SW-1 (15-16)           | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-20       | SW-2 (15-16)           | Total/NA  | Solid  | 8021B  | 3385       |
| MB 880-3385/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 3385       |
| LCS 880-3385/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 3385       |
| LCSD 880-3385/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-11 MS    | BH-11 (6-7)            | Total/NA  | Solid  | 8021B  | 3385       |
| 880-2355-11 MSD   | BH-11 (6-7)            | Total/NA  | Solid  | 8021B  | 3385       |

## GC Semi VOA

## Prep Batch: 3339

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 880-2355-1        | BH-1 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-2        | BH-2 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-3        | BH-3 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-4        | BH-4 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-5        | BH-5 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-6        | BH-6 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-7        | BH-7 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-8        | BH-8 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-9        | BH-9 (6-7)             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-10       | BH-10 (6-7)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-11       | BH-11 (6-7)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-12       | BH-12 (9-10)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-13       | BH-13 (9-10)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-14       | BH-14 (9-10)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-15       | BH-15 (4-5)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-16       | BH-16 (4-5)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-17       | 1 SW-1 (4-5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-18       | 1 SW-2 (4-5)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-19       | SW-1 (15-16)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-20       | SW-2 (15-16)           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-3339/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-3339/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-3339/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-1 MS     | BH-1 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-1 MSD    | BH-1 (16-17)           | Total/NA  | Solid  | 8015NM Prep |            |

## Prep Batch: 3342

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method      | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 880-2355-21   | SW-3 (15-16)     | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-22   | SW-4 (5-6)       | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-23   | SW-5 (5-6)       | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## GC Semi VOA (Continued)

## Prep Batch: 3342 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 880-2355-24       | SW-6 (5-6)             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-25       | SW-7 (5-6)             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-26       | SW-8 (8-9)             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-27       | SW-9 (8-9)             | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-28       | SW-10 (8-9)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-29       | SW-11 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-30       | SW-12 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-31       | SW-13 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-32       | SW-14 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-33       | SW-15 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-34       | SW-16 (3-4)            | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-3342/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-3342/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-3342/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-21 MS    | SW-3 (15-16)           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-2355-21 MSD   | SW-3 (15-16)           | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 3369

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-2355-1    | BH-1 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-2    | BH-2 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-3    | BH-3 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-4    | BH-4 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-5    | BH-5 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-6    | BH-6 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-7    | BH-7 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-8    | BH-8 (16-17)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-9    | BH-9 (6-7)       | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-10   | BH-10 (6-7)      | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-11   | BH-11 (6-7)      | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-12   | BH-12 (9-10)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-13   | BH-13 (9-10)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-14   | BH-14 (9-10)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-15   | BH-15 (4-5)      | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-16   | BH-16 (4-5)      | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-17   | 1 SW-1 (4-5)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-18   | 1 SW-2 (4-5)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-19   | SW-1 (15-16)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-20   | SW-2 (15-16)     | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-21   | SW-3 (15-16)     | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-22   | SW-4 (5-6)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-23   | SW-5 (5-6)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-24   | SW-6 (5-6)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-25   | SW-7 (5-6)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-26   | SW-8 (8-9)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-27   | SW-9 (8-9)       | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-28   | SW-10 (8-9)      | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-29   | SW-11 (3-4)      | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-30   | SW-12 (3-4)      | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-31   | SW-13 (3-4)      | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-32   | SW-14 (3-4)      | Total/NA  | Solid  | 8015B NM | 3342       |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## GC Semi VOA (Continued)

## Analysis Batch: 3369 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-2355-33       | SW-15 (3-4)            | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-34       | SW-16 (3-4)            | Total/NA  | Solid  | 8015B NM | 3342       |
| MB 880-3339/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 3339       |
| MB 880-3342/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 3342       |
| LCS 880-3339/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 3339       |
| LCS 880-3342/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 3342       |
| LCSD 880-3339/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 3339       |
| LCSD 880-3342/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-1 MS     | BH-1 (16-17)           | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-1 MSD    | BH-1 (16-17)           | Total/NA  | Solid  | 8015B NM | 3339       |
| 880-2355-21 MS    | SW-3 (15-16)           | Total/NA  | Solid  | 8015B NM | 3342       |
| 880-2355-21 MSD   | SW-3 (15-16)           | Total/NA  | Solid  | 8015B NM | 3342       |

## HPLC/IC

## Leach Batch: 3343

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-2355-1        | BH-1 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-2        | BH-2 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-3        | BH-3 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-4        | BH-4 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-5        | BH-5 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-6        | BH-6 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-7        | BH-7 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-8        | BH-8 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-9        | BH-9 (6-7)             | Soluble   | Solid  | DI Leach |            |
| 880-2355-10       | BH-10 (6-7)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-11       | BH-11 (6-7)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-12       | BH-12 (9-10)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-13       | BH-13 (9-10)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-14       | BH-14 (9-10)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-15       | BH-15 (4-5)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-16       | BH-16 (4-5)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-17       | 1 SW-1 (4-5)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-18       | 1 SW-2 (4-5)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-19       | SW-1 (15-16)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-20       | SW-2 (15-16)           | Soluble   | Solid  | DI Leach |            |
| MB 880-3343/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-3343/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-3343/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-2355-1 MS     | BH-1 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-1 MSD    | BH-1 (16-17)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-11 MS    | BH-11 (6-7)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-11 MSD   | BH-11 (6-7)            | Soluble   | Solid  | DI Leach |            |

## Leach Batch: 3344

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 880-2355-21   | SW-3 (15-16)     | Soluble   | Solid  | DI Leach |            |
| 880-2355-22   | SW-4 (5-6)       | Soluble   | Solid  | DI Leach |            |
| 880-2355-23   | SW-5 (5-6)       | Soluble   | Solid  | DI Leach |            |
| 880-2355-24   | SW-6 (5-6)       | Soluble   | Solid  | DI Leach |            |

Eurofins Xenco, Midland

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## HPLC/IC (Continued)

## Leach Batch: 3344 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 880-2355-25       | SW-7 (5-6)             | Soluble   | Solid  | DI Leach |            |
| 880-2355-26       | SW-8 (8-9)             | Soluble   | Solid  | DI Leach |            |
| 880-2355-27       | SW-9 (8-9)             | Soluble   | Solid  | DI Leach |            |
| 880-2355-28       | SW-10 (8-9)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-29       | SW-11 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-30       | SW-12 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-31       | SW-13 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-32       | SW-14 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-33       | SW-15 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-34       | SW-16 (3-4)            | Soluble   | Solid  | DI Leach |            |
| MB 880-3344/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-3344/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-3344/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-2355-21 MS    | SW-3 (15-16)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-21 MSD   | SW-3 (15-16)           | Soluble   | Solid  | DI Leach |            |
| 880-2355-31 MS    | SW-13 (3-4)            | Soluble   | Solid  | DI Leach |            |
| 880-2355-31 MSD   | SW-13 (3-4)            | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 3352

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-1        | BH-1 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-2        | BH-2 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-3        | BH-3 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-4        | BH-4 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-5        | BH-5 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-6        | BH-6 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-7        | BH-7 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-8        | BH-8 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-9        | BH-9 (6-7)             | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-10       | BH-10 (6-7)            | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-11       | BH-11 (6-7)            | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-12       | BH-12 (9-10)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-13       | BH-13 (9-10)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-14       | BH-14 (9-10)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-15       | BH-15 (4-5)            | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-16       | BH-16 (4-5)            | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-17       | 1 SW-1 (4-5)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-18       | 1 SW-2 (4-5)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-19       | SW-1 (15-16)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-20       | SW-2 (15-16)           | Soluble   | Solid  | 300.0  | 3343       |
| MB 880-3343/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 3343       |
| LCS 880-3343/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 3343       |
| LCSD 880-3343/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-1 MS     | BH-1 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-1 MSD    | BH-1 (16-17)           | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-11 MS    | BH-11 (6-7)            | Soluble   | Solid  | 300.0  | 3343       |
| 880-2355-11 MSD   | BH-11 (6-7)            | Soluble   | Solid  | 300.0  | 3343       |

## Analysis Batch: 3361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 880-2355-21   | SW-3 (15-16)     | Soluble   | Solid  | 300.0  | 3344       |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## HPLC/IC (Continued)

## Analysis Batch: 3361 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 880-2355-22       | SW-4 (5-6)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-23       | SW-5 (5-6)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-24       | SW-6 (5-6)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-25       | SW-7 (5-6)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-26       | SW-8 (8-9)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-27       | SW-9 (8-9)             | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-28       | SW-10 (8-9)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-29       | SW-11 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-30       | SW-12 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-31       | SW-13 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-32       | SW-14 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-33       | SW-15 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-34       | SW-16 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| MB 880-3344/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 3344       |
| LCS 880-3344/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 3344       |
| LCSD 880-3344/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-21 MS    | SW-3 (15-16)           | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-21 MSD   | SW-3 (15-16)           | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-31 MS    | SW-13 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |
| 880-2355-31 MSD   | SW-13 (3-4)            | Soluble   | Solid  | 300.0  | 3344       |

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: BH-1 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 12:22       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 16:49       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 22:15       | SC      | XEN MID |

## Client Sample ID: BH-2 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 12:43       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 17:52       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 22:30       | SC      | XEN MID |

## Client Sample ID: BH-3 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 13:03       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 18:13       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 22:35       | SC      | XEN MID |

## Client Sample ID: BH-4 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 13:23       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 18:34       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 22:41       | SC      | XEN MID |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: BH-5 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-5

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         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 13:44       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 18:55       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 22:46       | SC      | XEN MID |

## Client Sample ID: BH-6 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 14:04       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 19:16       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:01       | SC      | XEN MID |

## Client Sample ID: BH-7 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-7

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         |     |            | 5.00 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 14:25       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 19:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:06       | SC      | XEN MID |

## Client Sample ID: BH-8 (16-17)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-8

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 14:45       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 19:58       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:12       | SC      | XEN MID |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: BH-9 (6-7)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-9

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.02 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 15:05       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 20:19       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:17       | SC      | XEN MID |

## Client Sample ID: BH-10 (6-7)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-10

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 3334         | 05/24/21 08:30       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3386         | 05/24/21 15:26       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 20:40       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:22       | SC      | XEN MID |

## Client Sample ID: BH-11 (6-7)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-11

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         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 12:11       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 21:22       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:27       | SC      | XEN MID |

## Client Sample ID: BH-12 (9-10)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 12:32       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 21:43       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:43       | SC      | XEN MID |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: BH-13 (9-10)

## Lab Sample ID: 880-2355-13

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 12:52       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 22:04       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/23/21 23:48       | SC      | XEN MID |

## Client Sample ID: BH-14 (9-10)

## Lab Sample ID: 880-2355-14

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 13:13       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 22:25       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:03       | SC      | XEN MID |

## Client Sample ID: BH-15 (4-5)

## Lab Sample ID: 880-2355-15

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 13:34       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 22:45       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:08       | SC      | XEN MID |

## Client Sample ID: BH-16 (4-5)

## Lab Sample ID: 880-2355-16

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 13:55       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 23:06       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:14       | SC      | XEN MID |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: 1 SW-1 (4-5)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-17

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.04 g         | 5 mL         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 14:15       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 23:27       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.99 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:19       | SC      | XEN MID |

## Client Sample ID: 1 SW-2 (4-5)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-18

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.98 g         | 5 mL         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 14:36       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/22/21 23:48       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.97 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:24       | SC      | XEN MID |

## Client Sample ID: SW-1 (15-16)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-19

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.03 g         | 5 mL         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 14:57       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 00:09       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.95 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:29       | SC      | XEN MID |

## Client Sample ID: SW-2 (15-16)

Date Collected: 05/20/21 00:00

Date Received: 05/21/21 09:46

## Lab Sample ID: 880-2355-20

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.95 g         | 5 mL         | 3385         | 05/24/21 08:38       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3387         | 05/24/21 15:17       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 3339         | 05/21/21 10:45       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 00:30       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 3343         | 05/21/21 11:09       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3352         | 05/24/21 00:34       | SC      | XEN MID |

Eurofins Xenco, Midland

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (15-16)

Lab Sample ID: 880-2355-21

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 11:06       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 02:14       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 17:36       | SC      | XEN MID |

Client Sample ID: SW-4 (5-6)

Lab Sample ID: 880-2355-22

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 11:27       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 03:17       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 17:51       | SC      | XEN MID |

Client Sample ID: SW-5 (5-6)

Lab Sample ID: 880-2355-23

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 11:48       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.05 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 03:37       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 17:57       | SC      | XEN MID |

Client Sample ID: SW-6 (5-6)

Lab Sample ID: 880-2355-24

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 12:08       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 03:58       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:02       | SC      | XEN MID |

Eurofins Xenco, Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (5-6)

Lab Sample ID: 880-2355-25

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 12:29       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 04:20       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:07       | SC      | XEN MID |

Client Sample ID: SW-8 (8-9)

Lab Sample ID: 880-2355-26

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 12:50       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 04:41       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:22       | SC      | XEN MID |

Client Sample ID: SW-9 (8-9)

Lab Sample ID: 880-2355-27

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 13:11       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 05:02       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.96 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:28       | SC      | XEN MID |

Client Sample ID: SW-10 (8-9)

Lab Sample ID: 880-2355-28

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 13:31       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 05:22       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 4.98 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:33       | SC      | XEN MID |

Eurofins Xenco, Midland

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: SW-11 (3-4)

## Lab Sample ID: 880-2355-29

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 13:52       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 05:43       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:38       | SC      | XEN MID |

## Client Sample ID: SW-12 (3-4)

## Lab Sample ID: 880-2355-30

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 14:13       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 06:04       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:43       | SC      | XEN MID |

## Client Sample ID: SW-13 (3-4)

## Lab Sample ID: 880-2355-31

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 15:38       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 06:46       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 18:48       | SC      | XEN MID |

## Client Sample ID: SW-14 (3-4)

## Lab Sample ID: 880-2355-32

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 15:59       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 07:07       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.05 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 19:04       | SC      | XEN MID |

Eurofins Xenco, Midland

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

## Client Sample ID: SW-15 (3-4)

## Lab Sample ID: 880-2355-33

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.00 g         | 5 mL         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 16:19       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 07:28       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.04 g         | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 19:09       | SC      | XEN MID |

## Client Sample ID: SW-16 (3-4)

## Lab Sample ID: 880-2355-34

Date Collected: 05/20/21 00:00

Matrix: Solid

Date Received: 05/21/21 09:46

| 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         | 3337         | 05/21/21 10:27       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 3318         | 05/22/21 16:40       | KL      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 3342         | 05/21/21 11:01       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 3369         | 05/23/21 07:49       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 3344         | 05/21/21 11:11       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 3361         | 05/21/21 19:24       | SC      | XEN MID |

## Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

Laboratory: Eurofins Xenco, Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

Eurofins Xenco, Midland

## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal #1

Job ID: 880-2355-1  
SDG: Eddy County, New Mexico

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 880-2355-1    | BH-1 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-2    | BH-2 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-3    | BH-3 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-4    | BH-4 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-5    | BH-5 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-6    | BH-6 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-7    | BH-7 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-8    | BH-8 (16-17)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-9    | BH-9 (6-7)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-10   | BH-10 (6-7)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-11   | BH-11 (6-7)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-12   | BH-12 (9-10)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-13   | BH-13 (9-10)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-14   | BH-14 (9-10)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-15   | BH-15 (4-5)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-16   | BH-16 (4-5)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-17   | 1 SW-1 (4-5)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-18   | 1 SW-2 (4-5)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-19   | SW-1 (15-16)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-20   | SW-2 (15-16)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-21   | SW-3 (15-16)     | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-22   | SW-4 (5-6)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-23   | SW-5 (5-6)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-24   | SW-6 (5-6)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-25   | SW-7 (5-6)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-26   | SW-8 (8-9)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-27   | SW-9 (8-9)       | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-28   | SW-10 (8-9)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-29   | SW-11 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-30   | SW-12 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-31   | SW-13 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-32   | SW-14 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-33   | SW-15 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |
| 880-2355-34   | SW-16 (3-4)      | Solid  | 05/20/21 00:00 | 05/21/21 09:46 |          |

Eurofins Xenco, Midland

## Analysis Request of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring S  
 401 Midland, Texas  
 Tel (432) 682-4  
 Fax (432) 682-35


880-2355 Chain of Custody

Page 1 of 4

880-2355

5/24/2021

|                                                                        |  |                                           |  |
|------------------------------------------------------------------------|--|-------------------------------------------|--|
| Client Name<br><b>Eog Resources</b>                                    |  | Site Manager<br><b>Paula Torara</b>       |  |
| Project Name<br><b>Sosa Federal #1</b>                                 |  | Project #<br><b>212C-MD-02419 (3400)</b>  |  |
| Project Location<br>(county, state)<br><b>Eddy County, New Mexico</b>  |  | Project #<br><b>212C-MD-02419 (3400)</b>  |  |
| Invoice to<br><b>Eog, Attn: <del>James Kennedy</del> James Kennedy</b> |  | Sampler Signature<br><i>James Kennedy</i> |  |
| Receiving Laboratory<br><b>Eurofins (Xeno)</b>                         |  | Sampler Signature<br><i>James Kennedy</i> |  |
| Comments                                                               |  |                                           |  |

| LAB #<br>(LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING |         | MATRIX |       | PRESERVATIVE METHOD |     | # CONTAINERS | FILTERED (Y/N) |
|-------------------------|-----------------------|----------|---------|--------|-------|---------------------|-----|--------------|----------------|
|                         |                       | YEAR     | DATE    | TIME   | WATER | SOIL                | HCL |              |                |
|                         | BH-1 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-2 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-3 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-4 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-5 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-6 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-7 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-8 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-9 (16-17)          |          | 5/20/21 |        |       |                     |     |              |                |
|                         | BH-10 (16-17)         |          | 5/20/21 |        |       |                     |     |              |                |

|                                       |                 |             |                                   |                 |              |
|---------------------------------------|-----------------|-------------|-----------------------------------|-----------------|--------------|
| Relinquished by<br><i>[Signature]</i> | Date<br>5/21/20 | Time<br>938 | Received by<br><i>[Signature]</i> | Date<br>5/21/21 | Time<br>0938 |
| Relinquished by                       | Date            | Time        | Received by                       | Date            | Time         |

|                                      |                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LAB USE ONLY                         | REMARKS                                                                                                                                                                        |
| Sample Temperature<br><b>4.1/4.6</b> | <input checked="" type="checkbox"/> RUSH Same Day (24 hr)<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report |
| <b>+0.5</b>                          |                                                                                                                                                                                |

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## Analysis Request of Custody Record

Page 2 of 4

## Tetra Tech, Inc.

4000 N. Big Spring Street, Ste  
401 Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

| Client Name<br><b>EOG Resources</b>                            |                       | Site Manager<br><b>Paula Torara</b>     |         |                                   |                     |              |                |                                                    |      |
|----------------------------------------------------------------|-----------------------|-----------------------------------------|---------|-----------------------------------|---------------------|--------------|----------------|----------------------------------------------------|------|
| Project Name<br><b>Sosa Federal #1</b>                         |                       | Project #<br><b>21C-MD-02419 (3400)</b> |         |                                   |                     |              |                |                                                    |      |
| Project Location<br>(county)<br><b>Eddy County, New Mexico</b> |                       | Project #<br><b>21C-MD-02419 (3400)</b> |         |                                   |                     |              |                |                                                    |      |
| Invoice to<br><b>EOG Allen James Kennedy</b>                   |                       | Sampler Signature<br><i>[Signature]</i> |         |                                   |                     |              |                |                                                    |      |
| Receiving Laboratory<br><b>Eurefin (Xeno)</b>                  |                       | Sampler Signature<br><i>[Signature]</i> |         |                                   |                     |              |                |                                                    |      |
| Comments                                                       |                       |                                         |         |                                   |                     |              |                |                                                    |      |
| LAB #<br>(LAB USE ONLY)                                        | SAMPLE IDENTIFICATION | SAMPLING                                |         | MATRIX                            | PRESERVATIVE METHOD | # CONTAINERS | FILTERED (Y/N) | ANALYSIS REQUEST<br>(Circle or Specify Method No.) |      |
|                                                                |                       | YEAR                                    | DATE    |                                   |                     |              |                |                                                    | TIME |
|                                                                | BH-11 (4-7)           |                                         | 5/20/21 |                                   |                     | 1            |                | BTEX 8021B BTEX 8260B                              |      |
|                                                                | BH-12 (9-10)          |                                         | 5/20/21 |                                   |                     | 1            |                | TPH TX 1005 (Ext to C35)                           |      |
|                                                                | BH-13 (9-10)          |                                         | 5/20/21 |                                   |                     | 1            |                | TPH 8015M (GRO - DRO - ORO)                        |      |
|                                                                | BH-14 (9-10)          |                                         | 5/20/21 |                                   |                     | 1            |                | PAH 8270C                                          |      |
|                                                                | BH-15 (4-5)           |                                         | 5/20/21 |                                   |                     | 1            |                | Total Metals Ag As Ba Cd Cr Pb Se Hg               |      |
|                                                                | BH-16 (4-5)           |                                         | 5/20/21 |                                   |                     | 1            |                | TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |      |
|                                                                | 1SW-1 (4-5)           |                                         | 5/20/21 |                                   |                     | 1            |                | TCLP Volatiles                                     |      |
|                                                                | 1SW-2 (4-5)           |                                         | 5/20/21 |                                   |                     | 1            |                | TCLP Semi Volatiles                                |      |
|                                                                | 5W-1 (15-16)          |                                         | 5/20/21 |                                   |                     | 1            |                | RCI                                                |      |
|                                                                | 5W-2 (15-16)          |                                         | 5/20/21 |                                   |                     | 1            |                | GC/MS Vol 8260B / 624                              |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | GC/MS Semi Vol 8270C/625                           |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | PCBs 8082 / 608                                    |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | NORM                                               |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | PLM (Asbestos)                                     |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | Chloride 300.00                                    |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | Chloride Sulfate TDS                               |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | General Water Chemistry (see attached list)        |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | Anion/Cation Balance                               |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | Asbestos                                           |      |
|                                                                |                       |                                         |         |                                   |                     |              |                | Hold                                               |      |
| Relinquished by<br><i>[Signature]</i>                          |                       | Date                                    | Time    | Received by<br><i>[Signature]</i> |                     |              |                |                                                    |      |
|                                                                |                       | 5/21/20                                 | 938     | 5/21/21 0930                      |                     |              |                |                                                    |      |
| Relinquished by                                                |                       | Date                                    | Time    | Received by                       |                     |              |                |                                                    |      |
|                                                                |                       |                                         |         |                                   |                     |              |                |                                                    |      |
| Relinquished by                                                |                       | Date                                    | Time    | Received by                       |                     |              |                |                                                    |      |
|                                                                |                       |                                         |         |                                   |                     |              |                |                                                    |      |

ORIGINAL COPY

LAB USE ONLY

Sample Temperature  
**4.1/4.6**

**+0.5**

REMARKS

☒ RUSH Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Analysis Request of Chain of Custody Record

Page 3 of 4



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401  
Midland Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

|                                                                |                       |                                          |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------|-----------------------|------------------------------------------|--------------------|-----------------------------------|---------------------|------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Client Name<br><b>EOG Resources</b>                            |                       | Site Manager<br><b>Paula Tecera</b>      |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| Project Name<br><b>Sosa Federal #1</b>                         |                       | Project #<br><b>212C-MD-02419 (3400)</b> |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| Project Location<br>state <b>Eddy</b> county <b>New Mexico</b> |                       |                                          |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| Invoice to<br><b>EOG 4th: James Kennedy</b>                    |                       |                                          |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| Receiving Laboratory<br><b>Eurofins (Texas)</b>                |                       | Sampler Signature<br><i>Jaime P...</i>   |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| Comments                                                       |                       |                                          |                    |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
| LAB #<br>(LAB USE ONLY)                                        | SAMPLE IDENTIFICATION | SAMPLING                                 |                    | MATRIX                            | PRESERVATIVE METHOD | # CONTAINERS           | FILTERED (Y/N)      | ANALYSIS REQUEST<br>(Circle or Specify Method No.)                                                                                                                                                                                                                                            |
|                                                                |                       | YEAR                                     | DATE               |                                   |                     |                        |                     |                                                                                                                                                                                                                                                                                               |
|                                                                | SW-3 (15-16)          |                                          | 5/20/21            |                                   |                     |                        |                     | BTEX 8021B BTEX 8260B                                                                                                                                                                                                                                                                         |
|                                                                | SW-4 (5-6)            |                                          | 5/20/21            |                                   |                     |                        |                     | TPH TX1005 (Ext to C35)                                                                                                                                                                                                                                                                       |
|                                                                | SW-5 (5-6)            |                                          | 5/20/21            |                                   |                     |                        |                     | TPH 8015M ( GRO DRO ORO)                                                                                                                                                                                                                                                                      |
|                                                                | SW-6 (5-6)            |                                          | 5/20/21            |                                   |                     |                        |                     | PAH 8270C                                                                                                                                                                                                                                                                                     |
|                                                                | SW-7 (5-6)            |                                          | 5/20/21            |                                   |                     |                        |                     | Total Metals Ag As Ba Cd Cr Pb Se Hg                                                                                                                                                                                                                                                          |
|                                                                | SW-8 (8-9)            |                                          | 5/20/21            |                                   |                     |                        |                     | TCLP Metals Ag As Ba Cd Cr Pb Se Hg                                                                                                                                                                                                                                                           |
|                                                                | SW-9 (8-9)            |                                          | 5/20/21            |                                   |                     |                        |                     | TCLP Volatiles                                                                                                                                                                                                                                                                                |
|                                                                | SW-10 (8-9)           |                                          | 5/20/21            |                                   |                     |                        |                     | TCLP Semi Volatiles                                                                                                                                                                                                                                                                           |
|                                                                | SW-11 (3-4)           |                                          | 5/20/21            |                                   |                     |                        |                     | RCI                                                                                                                                                                                                                                                                                           |
|                                                                | SW-12 (3-4)           |                                          | 5/20/21            |                                   |                     |                        |                     | GC/MS Vol 8260B / 624                                                                                                                                                                                                                                                                         |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | GC/MS Semi Vol 8270C/625                                                                                                                                                                                                                                                                      |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | PCBs 8082 / 608                                                                                                                                                                                                                                                                               |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | NORM                                                                                                                                                                                                                                                                                          |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | PLM (Asbestos)                                                                                                                                                                                                                                                                                |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | Chloride <b>300.00</b>                                                                                                                                                                                                                                                                        |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | Chloride Sulfate TDS                                                                                                                                                                                                                                                                          |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | General Water Chemistry (see attached list)                                                                                                                                                                                                                                                   |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | Anion/Cation Balance                                                                                                                                                                                                                                                                          |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | Asbestos                                                                                                                                                                                                                                                                                      |
|                                                                |                       |                                          |                    |                                   |                     |                        |                     | Hold                                                                                                                                                                                                                                                                                          |
| Relinquished by<br><i>[Signature]</i>                          |                       | Date<br><b>5/21/20</b>                   | Time<br><b>938</b> | Received by<br><i>[Signature]</i> |                     | Date<br><b>5/21/21</b> | Time<br><b>0938</b> | REMARKS<br><b>24 48</b><br><input checked="" type="checkbox"/> RUSH Same Day (24 hr) <input checked="" type="checkbox"/> 48 hr <input checked="" type="checkbox"/> 72 hr<br><input type="checkbox"/> Rush Charges Authorized<br><input type="checkbox"/> Special Report Limits or TRRP Report |
| Relinquished by                                                |                       | Date                                     | Time               | Received by                       |                     | Date                   | Time                |                                                                                                                                                                                                                                                                                               |
| Relinquished by                                                |                       | Date                                     | Time               | Received by                       |                     | Date                   | Time                |                                                                                                                                                                                                                                                                                               |

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #

|                                     |         |
|-------------------------------------|---------|
| LAB USE ONLY                        | REMARKS |
| Sample Temperature<br><b>41.4.6</b> |         |
| <b>+0.5</b>                         |         |

Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

4000 N. Big Spring Street, Ste  
401 Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 4 of 4

Client Name

EOG Resources

Site Manager

Paula Tovar

Project Name

Sosa Federal #1

Project Location

Eddy County, New Mexico

Project #

212C-MD-02419 (3400)

Invoice to

EOG Attn: James Kennedy

Receiving Laboratory

Eurofin (Xenico)

Sampler Signature

James Kennedy

Comments

LAB #  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING

YEAR

DATE

TIME

MATRIX

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

PRESERVATIVE METHOD

# CONTAINERS

FILTERED (Y/N)

ANALYSIS REQUEST  
(Circle or Specify Method No.)  
BTEX 8021B BTEX 8260B  
TPH TX1005 (Ext to C35)  
TPH 8015M ( GRO DRO ORO)  
PAH 8270C  
Total Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
RCI  
GC/MS Vol 8260B / 624  
GC/MS Semi Vol 8270C/625  
PCB s 8082 / 608  
NORM  
PLM (Asbestos)  
Chloride 300 ppb  
Chloride Sulfate TDS  
General Water Chemistry (see attached list)  
Anion/Cation Balance  
Asbestos

Hold

Relinquished by

Date Time

5/21/20 938

Received by

Date Time

5/21/21 0938

Relinquished by

Date Time

Received by

Date Time

LAB USE ONLY

REMARKS  
Sample Temperature  
4.1/4.6  
+0.5  
RUSH Same Day 24 hr  
Rush Charges Authorized  
Special Report Limits or TRRP Report

ORIGINAL COPY

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-2355-1

SDG Number: Eddy County, New Mexico

Login Number: 2355

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

| 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.                                       | False  | No times on COC, logged in per container labels. |
| Appropriate sample containers are used.                                          | True   |                                                  |
| Sample bottles are completely filled.                                            | True   |                                                  |
| Sample Preservation Verified.                                                    | N/A    |                                                  |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                                  |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                                  |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-730-1

Laboratory Sample Delivery Group: Eddy County  
Client Project/Site: Sosa Federal 1

**For:**

Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Attn: Clair Gonzales

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/26/2021 9:48:20 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

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results through

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Laboratory Job ID: 890-730-1  
SDG: Eddy County

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

## Qualifiers

## GC VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| F2        | MS/MSD RPD exceeds control limits                        |
| S1-       | Surrogate recovery exceeds control limits, low biased.   |
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| 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: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

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### Job ID: 890-730-1

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#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

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#### Job Narrative 890-730-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 5/25/2021 2:15 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-3520 and analytical batch 880-3530 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-7 (7') (890-730-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

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

#### General Chemistry

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

#### Organic Prep

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

#### VOA Prep

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

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

Client Sample ID: SW-7 (7')

Lab Sample ID: 890-730-1

Date Collected: 05/25/21 00:00

Matrix: Solid

Date Received: 05/25/21 14:15

Sample Depth: - 7

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| Toluene             | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| Ethylbenzene        | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| o-Xylene            | <0.00199 | U F1      | 0.00199 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| Xylenes, Total      | <0.00398 | U F1      | 0.00398 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| Total BTEX          | <0.00398 | U F1 F2   | 0.00398 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 145       | S1+       | 70 - 130 | 05/26/21 12:00 | 05/26/21 15:56 | 1       |
| 1,4-Difluorobenzene (Surr)  | 83        |           | 70 - 130 | 05/26/21 12:00 | 05/26/21 15:56 | 1       |

## Method: 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 |   | 05/26/21 10:57 | 05/26/21 14:54 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 14:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 14:54 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 14:54 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 83        |           | 70 - 130 | 05/26/21 10:57 | 05/26/21 14:54 | 1       |
| o-Terphenyl    | 82        |           | 70 - 130 | 05/26/21 10:57 | 05/26/21 14:54 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.05  | U         | 5.05 |     | mg/Kg |   |          | 05/26/21 18:33 | 1       |

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# Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                    | Percent Surrogate Recovery (Acceptance Limits) |          |
|-----------------------------------|--------------------|------------------------------------------------|----------|
| Lab Sample ID                     | Client Sample ID   | BFB1                                           | DFBZ1    |
|                                   |                    | (70-130)                                       | (70-130) |
| 890-730-1                         | SW-7 (7')          | 145 S1+                                        | 83       |
| 890-730-1 MS                      | SW-7 (7')          | 60 S1-                                         | 95       |
| 890-730-1 MSD                     | SW-7 (7')          | 62 S1-                                         | 95       |
| LCS 880-3520/1-A                  | Lab Control Sample | 108                                            | 98       |
| LCS 880-3520/2-A                  | Lab Control Sample | 103                                            | 95       |
| MB 880-3520/5-A                   | Method Blank       | 70                                             | 82       |
| <b>Surrogate Legend</b>           |                    |                                                |          |
| BFB = 4-Bromofluorobenzene (Surr) |                    |                                                |          |
| DFBZ = 1,4-Difluorobenzene (Surr) |                    |                                                |          |

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

Matrix: Solid

Prep Type: Total/NA

|                         |                        | Percent Surrogate Recovery (Acceptance Limits) |          |
|-------------------------|------------------------|------------------------------------------------|----------|
| Lab Sample ID           | Client Sample ID       | 1CO1                                           | OTPH1    |
|                         |                        | (70-130)                                       | (70-130) |
| 890-730-1               | SW-7 (7')              | 83                                             | 82       |
| LCS 880-3527/2-A        | Lab Control Sample     | 100                                            | 95       |
| LCSD 880-3527/3-A       | Lab Control Sample Dup | 101                                            | 96       |
| MB 880-3527/1-A         | Method Blank           | 100                                            | 103      |
| <b>Surrogate Legend</b> |                        |                                                |          |
| 1CO = 1-Chlorooctane    |                        |                                                |          |
| OTPH = o-Terphenyl      |                        |                                                |          |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

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

Lab Sample ID: MB 880-3520/5-A

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3520

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 05/26/21 12:00 | 05/26/21 15:31 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 70           |              | 70 - 130 | 05/26/21 12:00 | 05/26/21 15:31 | 1       |
| 1,4-Difluorobenzene (Surr)  | 82           |              | 70 - 130 | 05/26/21 12:00 | 05/26/21 15:31 | 1       |

Lab Sample ID: LCS 880-3520/1-A

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3520

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1159     |               | mg/Kg |   | 116  | 70 - 130     |
| Toluene             | 0.100       | 0.09439    |               | mg/Kg |   | 94   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1041     |               | mg/Kg |   | 104  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2101     |               | mg/Kg |   | 105  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1016     |               | mg/Kg |   | 102  | 70 - 130     |

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

Lab Sample ID: LCS 880-3520/2-A

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3520

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1131     |               | mg/Kg |   | 113  | 70 - 130     |
| Toluene             | 0.100       | 0.09802    |               | mg/Kg |   | 98   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1016     |               | mg/Kg |   | 102  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2052     |               | mg/Kg |   | 103  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1001     |               | mg/Kg |   | 100  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 103           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95            |               | 70 - 130 |

Lab Sample ID: 890-730-1 MS

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: SW-7 (7')

Prep Type: Total/NA

Prep Batch: 3520

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00199      | U F1             | 0.100       | 0.07893   |              | mg/Kg |   | 79   | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

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

Lab Sample ID: 890-730-1 MS

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: SW-7 (7')

Prep Type: Total/NA

Prep Batch: 3520

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Toluene                     | <0.00199      | U F1             | 0.100       | 0.06278   | F1           | mg/Kg |   | 63   | 70 - 130     |
| Ethylbenzene                | <0.00199      | U F1             | 0.100       | 0.05543   | F1           | mg/Kg |   | 55   | 70 - 130     |
| m-Xylene & p-Xylene         | <0.00398      | U F1             | 0.200       | 0.1111    | F1           | mg/Kg |   | 55   | 70 - 130     |
| o-Xylene                    | <0.00199      | U F1             | 0.100       | 0.05683   | F1           | mg/Kg |   | 56   | 70 - 130     |
| Surrogate                   | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 4-Bromofluorobenzene (Surr) | 60            | S1-              | 70 - 130    |           |              |       |   |      |              |
| 1,4-Difluorobenzene (Surr)  | 95            |                  | 70 - 130    |           |              |       |   |      |              |

Lab Sample ID: 890-730-1 MSD

Matrix: Solid

Analysis Batch: 3530

Client Sample ID: SW-7 (7')

Prep Type: Total/NA

Prep Batch: 3520

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene                     | <0.00199      | U F1             | 0.0998      | 0.06735    | F1            | mg/Kg |   | 67   | 70 - 130     | 16  | 35        |
| Toluene                     | <0.00199      | U F1             | 0.0998      | <0.00200   | U F1          | mg/Kg |   | 0    | 70 - 130     | NC  | 35        |
| Ethylbenzene                | <0.00199      | U F1             | 0.0998      | 0.04920    | F1            | mg/Kg |   | 49   | 70 - 130     | 12  | 35        |
| m-Xylene & p-Xylene         | <0.00398      | U F1             | 0.200       | 0.09888    | F1            | mg/Kg |   | 50   | 70 - 130     | 12  | 35        |
| o-Xylene                    | <0.00199      | U F1             | 0.0998      | 0.05191    | F1            | mg/Kg |   | 52   | 70 - 130     | 9   | 35        |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |           |
| 4-Bromofluorobenzene (Surr) | 62            | S1-              | 70 - 130    |            |               |       |   |      |              |     |           |
| 1,4-Difluorobenzene (Surr)  | 95            |                  | 70 - 130    |            |               |       |   |      |              |     |           |

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

Lab Sample ID: MB 880-3527/1-A

Matrix: Solid

Analysis Batch: 3504

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3527

| 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 |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0        | U            | 50.0     |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U            | 50.0     |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |
| Total TPH                            | <50.0        | U            | 50.0     |     | mg/Kg |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |
| Surrogate                            | MB %Recovery | MB Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 100          |              | 70 - 130 |     |       |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |
| o-Terphenyl                          | 103          |              | 70 - 130 |     |       |   | 05/26/21 10:57 | 05/26/21 12:45 | 1       |

Lab Sample ID: LCS 880-3527/2-A

Matrix: Solid

Analysis Batch: 3504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3527

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1073       |               | mg/Kg |   | 107  | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

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

Lab Sample ID: LCS 880-3527/2-A

Matrix: Solid

Analysis Batch: 3504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3527

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (Over C10-C28) | 1000        | 1174       |               | mg/Kg |   | 117  | 70 - 130     |

| Surrogate      | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| 1-Chlorooctane | 100           |               | 70 - 130 |
| o-Terphenyl    | 95            |               | 70 - 130 |

Lab Sample ID: LCSD 880-3527/3-A

Matrix: Solid

Analysis Batch: 3504

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3527

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 967.4       |                | mg/Kg |   | 97   | 70 - 130     | 10  | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1193        |                | mg/Kg |   | 119  | 70 - 130     | 2   | 20        |

| Surrogate      | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| 1-Chlorooctane | 101            |                | 70 - 130 |
| o-Terphenyl    | 96             |                | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3534/1-A

Matrix: Solid

Analysis Batch: 3535

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 |     | mg/Kg |   |          | 05/26/21 18:18 | 1       |

Lab Sample ID: LCS 880-3534/2-A

Matrix: Solid

Analysis Batch: 3535

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 245.8      |               | mg/Kg |   | 98   | 90 - 110     |

Lab Sample ID: LCSD 880-3534/3-A

Matrix: Solid

Analysis Batch: 3535

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         | 245.4       |                | mg/Kg |   | 98   | 90 - 110     | 0   | 20        |

Lab Sample ID: 890-730-1 MS

Matrix: Solid

Analysis Batch: 3535

Client Sample ID: SW-7 (7')

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <5.05         | U                | 253         | 253.0     |              | mg/Kg |   | 100  | 90 - 110     |

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-730-1 MSD

Matrix: Solid

Analysis Batch: 3535

Client Sample ID: SW-7 (7')

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | <5.05            | U                   | 253            | 252.8         |                  | mg/Kg |   | 99   | 90 - 110        | 0   | 20           |

Eurofins Xenco, Carlsbad



## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

## GC VOA

## Prep Batch: 3520

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 890-730-1        | SW-7 (7')          | Total/NA  | Solid  | 5035   |            |
| MB 880-3520/5-A  | Method Blank       | Total/NA  | Solid  | 5035   |            |
| LCS 880-3520/1-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| LCS 880-3520/2-A | Lab Control Sample | Total/NA  | Solid  | 5035   |            |
| 890-730-1 MS     | SW-7 (7')          | Total/NA  | Solid  | 5035   |            |
| 890-730-1 MSD    | SW-7 (7')          | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 3530

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 890-730-1        | SW-7 (7')          | Total/NA  | Solid  | 8021B  | 3520       |
| MB 880-3520/5-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 3520       |
| LCS 880-3520/1-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 3520       |
| LCS 880-3520/2-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 3520       |
| 890-730-1 MS     | SW-7 (7')          | Total/NA  | Solid  | 8021B  | 3520       |
| 890-730-1 MSD    | SW-7 (7')          | Total/NA  | Solid  | 8021B  | 3520       |

## GC Semi VOA

## Analysis Batch: 3504

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-730-1         | SW-7 (7')              | Total/NA  | Solid  | 8015B NM | 3527       |
| MB 880-3527/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 3527       |
| LCS 880-3527/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 3527       |
| LCSD 880-3527/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 3527       |

## Prep Batch: 3527

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-730-1         | SW-7 (7')              | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-3527/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-3527/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-3527/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## HPLC/IC

## Leach Batch: 3534

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-730-1         | SW-7 (7')              | Soluble   | Solid  | DI Leach |            |
| MB 880-3534/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-3534/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-3534/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-730-1 MS      | SW-7 (7')              | Soluble   | Solid  | DI Leach |            |
| 890-730-1 MSD     | SW-7 (7')              | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 3535

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-730-1         | SW-7 (7')              | Soluble   | Solid  | 300.0  | 3534       |
| MB 880-3534/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 3534       |
| LCS 880-3534/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 3534       |
| LCSD 880-3534/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 3534       |
| 890-730-1 MS      | SW-7 (7')              | Soluble   | Solid  | 300.0  | 3534       |
| 890-730-1 MSD     | SW-7 (7')              | Soluble   | Solid  | 300.0  | 3534       |

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

Client Sample ID: SW-7 (7')

Lab Sample ID: 890-730-1

Date Collected: 05/25/21 00:00

Matrix: Solid

Date Received: 05/25/21 14:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |                 | 3520         | 05/26/21 12:00       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1               | 3530         | 05/26/21 15:56       | MR      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 3527         | 05/26/21 10:57       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 3504         | 05/26/21 14:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |                 | 3534         | 05/26/21 13:55       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1               | 3535         | 05/26/21 18:33       | SC      | XEN MID |

## Laboratory References:

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

**Accreditation/Certification Summary**

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

**Laboratory: Eurofins Xenco, Midland**

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |

Eurofins Xenco, Carlsbad

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XEN MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XEN MID    |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XEN MID    |
| 5035        | Closed System Purge and Trap       | SW846    | XEN MID    |
| 8015NM Prep | Microextraction                    | SW846    | XEN MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XEN MID    |

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

Eurofins Xenco, Carlsbad

## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Sosa Federal 1

Job ID: 890-730-1  
SDG: Eddy County

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-730-1     | SW-7 (7')        | Solid  | 05/25/21 00:00 | 05/25/21 14:15 | - 7   |

1

2

3

4

5

6

7

8

9

10

11

12

13

14

## Analysis Request of Chain of Custody Record

## Tetra Tech, Inc.

301 W. Van Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-5956

890-730 Chain of Custody

Page 1 of 1



Client Name:

EOG Resources

Site Manager:

Paula Tabora

Project Name:

Sosa Federal 1

Project Location:

Eddy County

Project #:

212C-MD-02419

TASK  
3400

Invoice to:

EOG - James Kennedy

Sampler Signature:

Paula Tabora

Comments:

Xenoco/Eurofins

## SAMPLE IDENTIFICATION

## SAMPLING

YEAR 2020

DATE

TIME

## MATRIX

## PRESERVATIVE METHOD

WATER  
SOILHCL  
HNO<sub>3</sub>  
ICE  
None

# CONTAINERS

FILTERED (Y/N)

SW-7 (Z')

5/25/21

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

BTX 8021B BTX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

STANDARD

☒ Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Relinquished by:

Date: Time:

Received by:

Date: Time:

Sample Temperature  
4.4 / 14.0

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-730-1

SDG Number: Eddy County

Login Number: 730

List Number: 1

Creator: Ordonez, Gabby

List Source: Eurofins Xenco, Carlsbad

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



## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-730-1

SDG Number: Eddy County

Login Number: 730

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 05/26/21 11:21 AM

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 54724

CONDITIONS

|                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377                                            |
|                                                                      | Action Number:<br>54724                                   |
|                                                                      | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| bbillings  | None      | 11/2/2021      |