

Incident ID	NAPP2121527146
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## 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: Alex Shepherd, REM

Title: Environmental Manager

Signature: Alex Shepherd, REM

Date: 5/4/23

email: alex.shepherd@westernmidstream.com

Telephone: 903-690-3758

**OCD Only**

Received by: Jocelyn Harimon

Date: 05/04/2023

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: Robert Hamlet

Date: 9/21/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced





May 4, 2023

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: Closure Report  
Western Midstream  
Red Hills Phase 2 and Phase 3  
Eddy County, New Mexico  
nAPP2121527498 and nAPP2121527146**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by Western Midstream to assess a release that occurred at the Red Hills Phase 2 and Phase 3, Section 23, Township 26 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.006074°, -103.90745°. The site location is shown on **Figures 1 and 2**.

## **Background**

Two releases occurred at the Red Hills Midstream produced water pipeline. According to C-141 documentation, the first release (Incident ID 39490), caused by internal corrosion of the pipeline, was discovered on July 10, 2021, and resulted in the release of 3.94 barrels (bbls) of condensate onto the ground along the pipeline Right of Way (ROW), of which no free liquids were recovered. A second release (Incident ID 39488), also caused by internal corrosion of the pipeline, was discovered on August 2, 2021, and resulted in the release of 0.68 bbls of condensate onto the pipeline ROW, of which no free liquids were recovered. Upon commencement of field activities, historical chloride impact was discovered. C-141 documentation and New Mexico Oil Conservation Division (NMOCD) correspondence is included in **Appendix A**.

Western's contractor, Stingray Environmental and Construction (Stingray), conducted the initial site assessment and remediation activities from August 17, 2021 to August 21, 2021. A closure report was submitted to the NMOCD on in March of 2022, and was rejected due to insufficient sample quantity and incorrect BTEX sampling method. In April of 2022, a second closure report was submitted to the NMOCD following excavation and re-sampling activities. The second report was also rejected due to insufficient sampling and missing chloride and BTEX data for all of the samples submitted. Stingray's Closure Reports are presented as **Appendix B**.





## Site Characterization

### Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there is one stream located approximately 0.4 miles northwest of the Site. There were no playas, lakebeds, sinkholes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the Site is located in a medium karst area. The NFHL Map, USGS Mapper, and NMOSE data are shown in **Appendix C**.

### Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within incorporated municipal boundaries, defined municipal fresh water well fields, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

### Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. There is one Point of Diversion (POD) identified within a 0.5 mile radius of the Site. Well number C 02038 is an active well located approximately 0.46 miles from the site that was drilled to a total depth of 200 ft bgs on September 5, 1982, with no measured water depth recorded. USGS Well number 320106103555301 is located approximately 1.21 miles from the site and reported depth to water of 53.46 ft bgs. C 04653 POD 5, located approximately 1.61 from the site was drilled to a total depth of 72 ft bgs on July 26, 2022, with a measured water depth of 67 ft bgs. C 04653 POD 6, located approximately 1.61 from the site was drilled to a total depth of 74 ft bgs on July 25, 2022, with a measured water depth of 67 ft bgs. C 03605 POD 1, located approximately 1.76 from the site was drilled to a total depth of 45 ft bgs on January 28, 2013, no groundwater was encountered during the drilling of this well. Johnson #4-1, located approximately 1.82 miles from the site was drilled to a total depth of 255 ft bgs on February 28, 2014, with a measured water depth of 58 ft bgs. Johnson #4-2, located approximately 1.82 miles from the site was drilled to a total depth of 303 ft bgs on March 5, 2014, with a measured water depth of 81 ft bgs. POD records are presented in **Appendix C**.

Well ID	Distance from Site (Miles)	Date of Data	Resource of Information	Depth of Well	Depth to Water
C 02038	0.46	9/5/1982	NMOSE	200	Not Listed
320106103555301	1.21	2/24/2021	USGS	140'	53.46'
C 04653 POD 5	1.61	7/26/2022	NMOSE	72'	67'
C 04653 POD 6	1.61	7/25/2022	NMOSE	74'	67'





C 03605 POD 1	1.76	1/28/2013	NMOSE	45'	None
Johnson #4-1	1.82	2/28/2014	TWDB	255'	58'
Johnson #4-2	1.82	3/5/2014	TWDB	303'	81'

## Regulatory

A risk-based evaluation was performed for the site following 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 the Recommended Remedial Action Levels (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and total petroleum hydrocarbons (TPH) in soil. Based on the site characterization, the proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg), 50 mg/kg for total BTEX, 100 mg/kg TPH (GRO+DRO+ORO) and 600 mg/kg for chlorides.

## Delineation Sampling Activities

On October 3, 2022, Tetra Tech collected additional confirmation samples within the backfilled excavation area in order to determine if the area was remediated to NMAC 19.15.29 Table 1 standards. A total of twenty nine (29) soil borings were installed to the excavation depths listed in the August 11, 2022, Closure Report prepared by Stingray. Previously excavated depths ranged from 2.5 ft bgs to 6.0 ft bgs. The soil boring bottoms (CS-1 through CS-5) were collected as five point composite samples by taking samples at depths ranging from 4 ft bgs to 6 ft bgs representing the previous excavation bottom. Sidewall soil borings (ESW-1, WSW-1, NSW-1, NSW-2, NSW-3, NSW-4, NSW-5, SSW-1, SSW-2, SSW-3, SSW-4 and SSW-5) were installed to depths ranging from 4.5 ft bgs to 6.5 ft bgs and samples were collected in 1-foot intervals to achieve an accurate representation of the previously excavated sidewalls. On March 1, 2023, soil borings ESW-1-2 and SSW-5-2 were installed and collected as a representative composite sample of 1-foot intervals from ground surface to 6.5 ft bgs in an attempt to demonstrate that chloride levels in these areas were below NMOCD RRALs. Analytical results from the October 3, 2022 and March 1, 2023, delineation sampling events are presented as **Table 1**. The delineation assessment map is shown on **Figure 3**.

Referring to Table 1, soil borings (CS-1, ESW-1, ESW-1-2, NSW-3, NSW-4, NSW-5 and SSW-5) indicated chloride concentrations above RRALs, with concentrations ranging from 608 mg/kg to 1,440 mg/kg, at depths ranging from ground surface to 6.5 ft bgs. Total TPH concentrations above NMOCD RRALs were detected in soil boring (NSW-3), exhibiting concentrations ranging from 109 mg/kg to 286 mg/kg at depths ranging from ground surface to 4.5 ft bgs. None of the soil boring samples collected reported benzene or BTEX concentrations above laboratory reporting limits.

## Remediation Activities

Based on the results of the soil assessment, Tetra Tech and Stingray conducted remediation activities from March 1, 2023, through April 19, 2023. The northern wall of the previous excavation area was re-excavated as an approximately 100-foot long trench to depths ranging from 6.5 to 7 ft bgs. Additionally the west end of the previously excavated area was re-





excavated to a depth of 6.5-feet to remove the contamination discovered at 6 ft bgs during the delineation activities conducted on October 3, 2022. The remediation areas and depths are shown on **Figure 4**. Photographic documentation of the excavated area is presented as **Appendix D**.

Confirmation bottom hole and sidewall samples were collected every 200 square feet. All confirmation samples were collected as a 5-point composite to ensure a representative sample of the full depth of the sidewalls and the entire floor of the excavation. A total of seven (7) bottom hole samples (BTM-1 through BTM-7) were collected and a total of thirty one (31) sidewall confirmation samples (SW-1 through SW-20, SW-3-2, SW-4-2, SW-6-2, SW-7-2, SW-7-3, SW-9-2, SW-9-3, SW-11-2, SW-13-2, SW-14-2 and SW-14-3) were collected to confirm removal of the impacted soil was achieved. The confirmation soil samples were submitted to the analytical laboratory to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix E**.

Referring to Table 2, all final confirmation samples indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs in all confirmation samples.

## Conclusions

Based on the C-141s (nAPP2121527498 and nAPP2121527146) and information provided by Western, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, the proposed RRALs were determined to be 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, 100 mg/kg TPH (GRO+DRO+ORO) and 600 mg/kg for chlorides.

Delineation activities conducted by Tetra Tech on October 3, 2022, indicated that contaminated soil was still present at the Site along the northern edge, west end, and east end of the previously remediated and backfilled area. Delineation soil borings (CS-1, ESW-1, ESW-1-2, NSW-3, NSW-4, NSW-5 and SSW-5) indicated chloride concentrations above RRALs, with concentrations ranging from 608 mg/kg to 1,440 mg/kg, at depths ranging from ground surface to 6.5 ft bgs. Total TPH concentrations above NMOC RRALs were detected in soil boring (NSW-3), exhibiting concentrations ranging from 109 mg/kg to 286 mg/kg at depths ranging from ground surface to 4.5 ft bgs. None of the soil boring samples collected reported benzene or BTEX concentrations above laboratory reporting limits.

Following excavation of the impacted soils discovered during delineation activities, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was removed according to the specified RRALs. An estimated 250 cubic yards of impacted soil was removed and properly disposed of at R360 Red Bluff disposal facility, and the area was backfilled with clean imported material from a local mine to surface grade. The analytical results indicated all confirmation samples reported below the RRALs for all constituents.





Based on the Site assessment data and remediation activities performed, Western requests closure of the release area. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

A handwritten signature in blue ink that reads 'John Faught'.

John Faught, G.I.T.  
Project Manager

A handwritten signature in blue ink that reads 'Clair Gonzales'.

Clair Gonzales, P.G.  
Senior Project Manager

## Figures

Figure 1 - Site Overview Map

Figure 2 - Topographic Map

Figure 3 – Delineation Sample Location Map

Figure 4 – Confirmation Sample Location Map

## Tables

Table 1 – Delineation Analytical Results

Table 2 – Confirmation Analytical Results

## Appendices

Appendix A – C-141 and NMOCD Correspondence

Appendix B – Stingray Environmental and Construction Closure Reports

Appendix C – Site Characterization

Appendix D – Photographic Documentation

Appendix E – Analytical Laboratory Reports





# Figures

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NORTH

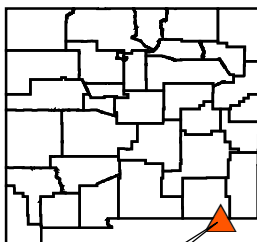


Legend

▲ APPROXIMATE SITE LOCATION

0 10,000 20,000  
Feet  
Approximate Scale

NEW MEXICO



SITE LOCATION

Western Midstream

FIGURE 1  
SITE OVERVIEW MAP  
RED HILLS PHASE 2 AND PHASE 3  
EDDY COUNTY, NEW MEXICO  
32.0053477°, -103.9438364°

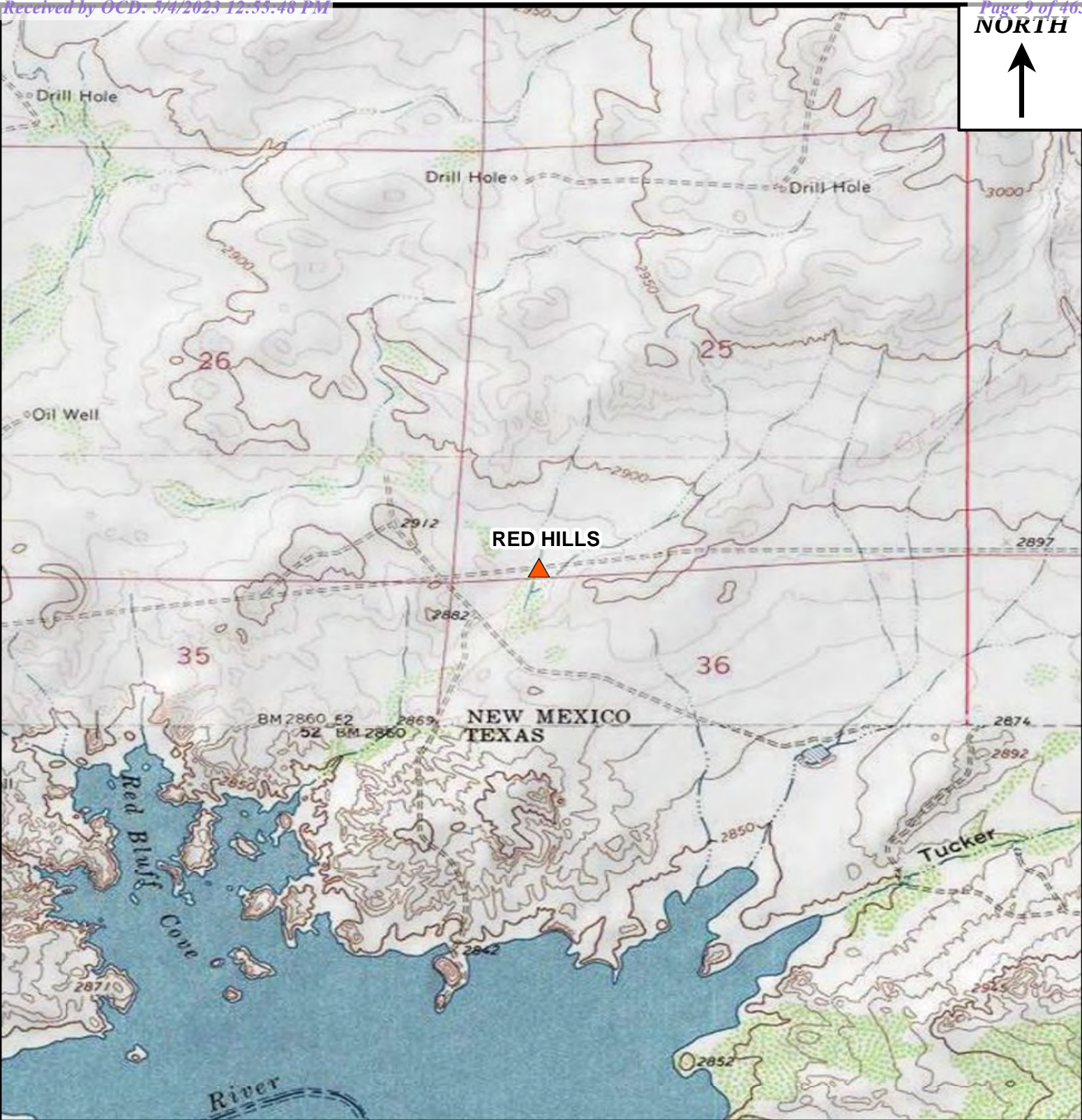
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Date: 3/24/2023

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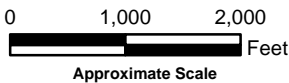






**Legend**

▲ APPROXIMATE SITE LOCATION



**Western Midstream**

**FIGURE 2**  
**TOPOGRAPHIC MAP**  
**RED HILLS PHASE 2 AND PHASE 3**  
**EDDY COUNTY, NEW MEXICO**  
**32.0053477°, -103.9438364°**

Project: 212C-MD-02893  
Date: 3/24/2023  
Name: Figure 2 - WM - Red Hills

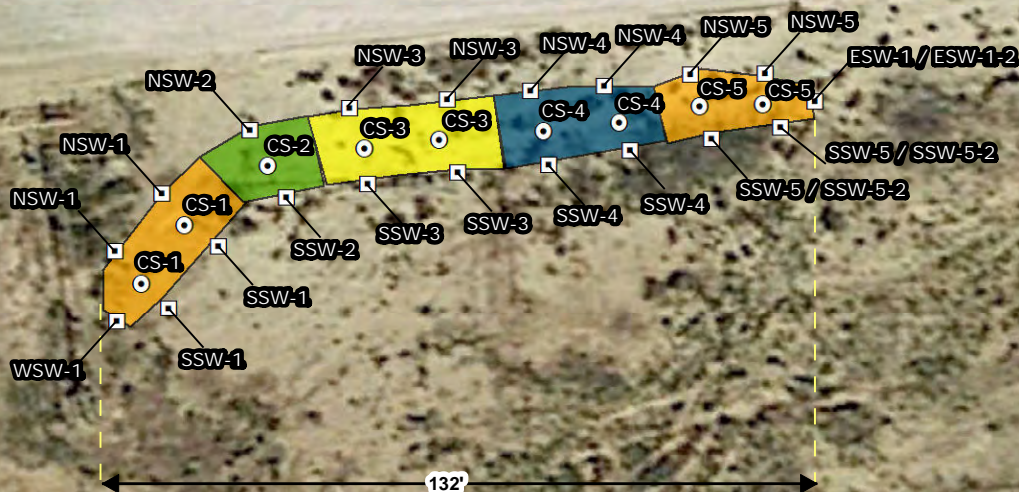




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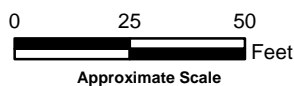


SITE LOCATOR



### Legend

- CONFIRMATION SAMPLE LOCATIONS
- CONFIRMATION SIDEWALL SAMPLE LOCATIONS
- 2.5' EXCAVATION
- 3.0' EXCAVATION
- 4.0' EXCAVATION
- 6.0' EXCAVATION



Western Midstream

FIGURE 3  
DELINEATION SAMPLE LOCATION MAP  
RED HILLS PHASE 2 AND PHASE 3  
EDDY COUNTY, NEW MEXICO  
32.0053477°, -103.9438364°

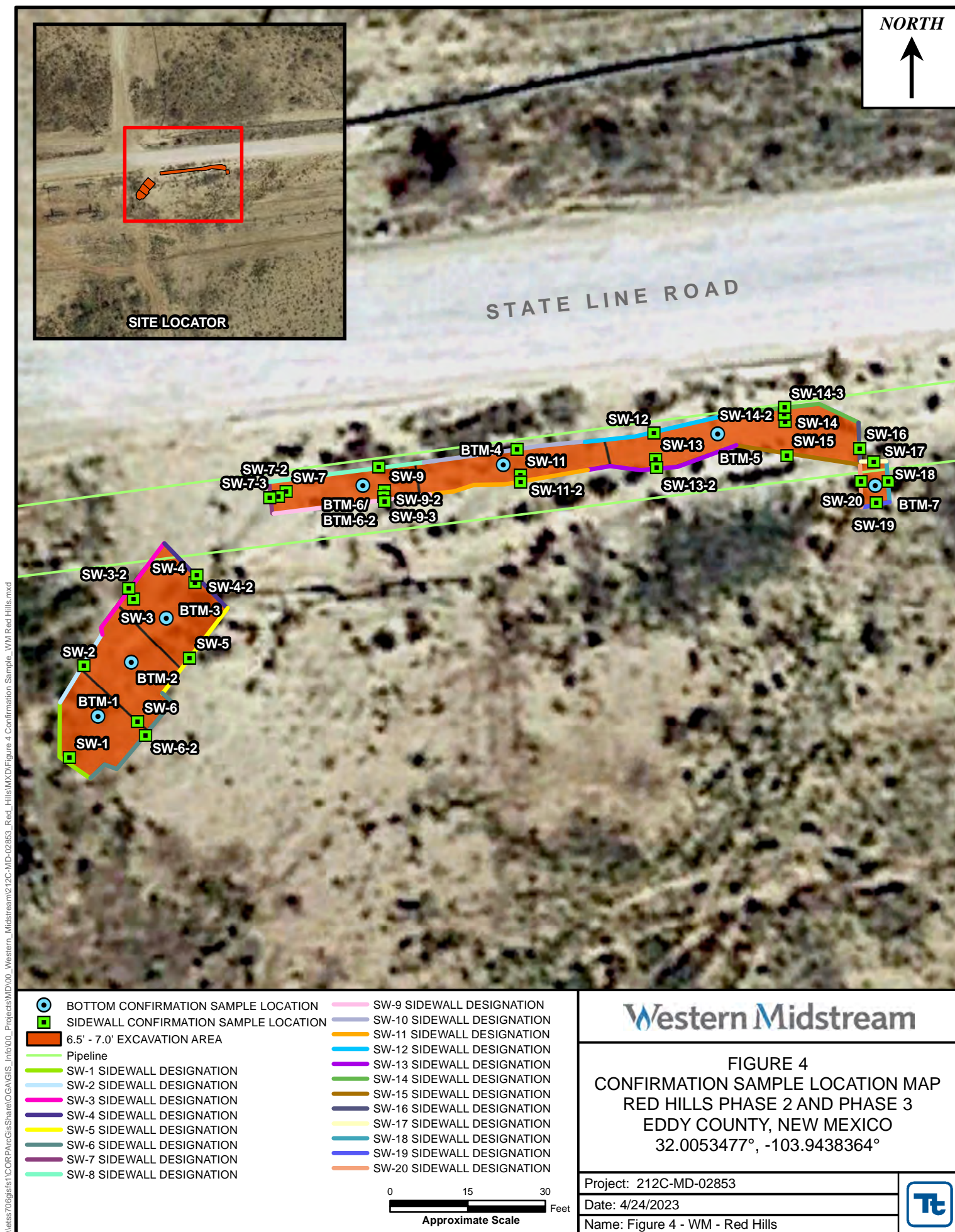
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Date: 3/24/2023

Name: Figure 3 - WM - Red Hills











## Tables

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Table 1  
Delineation Analytical Results  
Western Midstream  
Red Hills Phase 2 and 3  
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion 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						
RRALs			100 mg/kg						10 mg/kg		50 mg/kg			600 mg/kg
Composite Bottomhole Samples														
CS-1	10/3/2022	6	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
CS-2	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-3	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	10/3/2022	3-3.5	X	-	<10.0	24.5	<10.0	24.5	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-4	10/3/2022	4	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
CS-5	10/3/2022	6	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
Sidewalls														
ESW-1	10/3/2022	0-1'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1220
	10/3/2022	1-1.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	10/3/2022	2-2.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	10/3/2022	3-3.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	10/3/2022	4-4.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	10/3/2022	5-5.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	10/3/2022	6-6.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
ESW-1-2	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00500	<0.00100	<0.00100	<0.00200	1310
WSW-1	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	10/3/2022	2-2.5	X	-	<10.0	28.8	<10.0	28.8	<0.050	<0.050	<0.050	<0.150	<0.300	288
	10/3/2022	3-3.5	X	-	<10.0	25.6	<10.0	25.6	<0.050	<0.050	<0.050	<0.150	<0.300	256
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
	10/3/2022	5-5.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	10/3/2022	6-6.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
NSW-1	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
	10/3/2022	5-5.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
	10/3/2022	6-6.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
NSW-2	10/3/2022	0-1'	X	-	<10.0	13.8	<10.0	13.8	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	10/3/2022	1-1.5	X	-	<10.0	25.7	<10.0	25.7	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	10/3/2022	3-3.5	X	-	<10.0	13.1	<10.0	13.1	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	10/3/2022	4-4.5	X	-	<10.0	26.4	<10.0	26.4	<0.050	<0.050	<0.050	<0.150	<0.300	80.0



**Table 1**  
**Delineation Analytical Results**  
**Western Midstream**  
**Red Hills Phase 2 and 3**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Excavtion 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							
RRALs					100 mg/kg				10 mg/kg				50 mg/kg		600 mg/kg
NSW-3	10/3/2022	0-1'	-	X	<10.0	230	55.6	286	<0.050	<0.050	<0.050	<0.150	<0.300	656	
	10/3/2022	1-1.5	-	X	<10.0	128	29.2	157.2	<0.050	<0.050	<0.050	<0.150	<0.300	608	
	10/3/2022	2-2.5	-	X	<10.0	92	17.2	109	<0.050	<0.050	<0.050	<0.150	<0.300	560	
	10/3/2022	3-3.5	-	X	<10.0	117	15.9	132.9	<0.050	<0.050	<0.050	<0.150	<0.300	640	
	10/3/2022	4-4.5	-	X	<10.0	240	35.5	275.5	<0.050	<0.050	<0.050	<0.150	<0.300	656	
NSW-4	10/3/2022	0-1'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,340	
	10/3/2022	1-1.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,230	
	10/3/2022	2-2.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,440	
	10/3/2022	3-3.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,330	
	10/3/2022	4-4.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,340	
NSW-5	10/3/2022	0-1'	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,040	
	10/3/2022	1-1.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,060	
	10/3/2022	2-2.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,070	
	10/3/2022	3-3.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,040	
	10/3/2022	4-4.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,070	
	10/3/2022	5-5.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,220	
	10/3/2022	6-6.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,060	
SSW-1	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
	10/3/2022	2-2.5	X	-	<10.0	<10.0	12.9	12.9	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0	
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304	
	10/3/2022	5-5.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320	
	10/3/2022	6-6.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208	
SSW-2	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192	
	10/3/2022	1-1.5	X	-	<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.150	<0.300	160	
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
	10/3/2022	3-3.5	X	-	<10.0	17.8	<10.0	17.8	<0.050	<0.050	<0.050	<0.150	<0.300	176	
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
SSW-3	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240	
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272	
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368	
	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272	
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288	
SSW-4	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128	
	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176	
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	



Table 1  
Delineation Analytical Results  
Western Midstream  
Red Hills Phase 2 and 3  
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion 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						
RRALs			100 mg/kg						10 mg/kg		50 mg/kg		600 mg/kg	
SSW-5	10/3/2022	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	10/3/2022	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
	10/3/2022	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	10/3/2022	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	10/3/2022	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
	10/3/2022	5-5.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
	10/3/2022	6-6.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	800
SSW-5-2	3/1/2023	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.000990	<0.00495	<0.00990	<0.00198	<0.00198	531.0

**NOTES**  
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.  
All screening values and results are presented in milligrams per kilogram (mg/kg)  
**Bolded cells represent a detected concentration above the respective screening value.**  
< = analyte was not detected above the respective sample detection limit  
ft = feet below ground surface  
(-) = not analyzed for respective constituent  
TPH = total petroleum hydrocarbons  
BTEX = benzene, toluene, ethylbenzene, xylene  

Exceedance



Table 2  
Confirmation Analytical Results  
Western Midstream  
Red Hills Phase 2 and 3  
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion 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							
RRALs			100 mg/kg						10 mg/kg		50 mg/kg			600 mg/kg	
Bottomhole Samples															
BTM-1	10/3/2022	6.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.000992	<0.00496	<0.000992	<0.00198	<0.000992	521	
BTM-2	10/3/2022	6.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.000998	<0.00499	<0.000998	<0.00200	<0.00200	239	
BTM-3	10/3/2022	6.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.000994	<0.00497	<0.000994	<0.00199	<0.00199	188	
BTM-4	10/3/2022	6.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.000992	<0.00496	<0.000992	<0.00198	<0.000198	358	
BTM-5	10/3/2022	6.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.000994	<0.00497	<0.000994	<0.00199	<0.00199	78.8	
BTM-6	3/22/2023	6.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	943	
BTM-6-2	4/19/2023	7.0'	X	-	<25.0	<25.0	<25.0	<25.0	<0.025	<0.050	<0.050	<0.150	<0.275	128	
BTM-7	3/22/2023	6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	60.9	
Sidewalls															
SW-1	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00501	<0.00100	<0.00100	<0.00200	112	
SW-2	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00101	<0.00504	<0.00101	<0.00101	<0.00202	289	
SW-3	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	648	
SW-3-2	3/22/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	209	
SW-4	3/1/2023	0-6.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	901	
SW-4-2	3/22/2023	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	293	
SW-5	3/1/2023	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	543	
SW-6	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.000998	<0.00499	<0.000998	<0.00200	<0.00200	1170	
SW-6-2	3/22/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	391	
SW-7	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	898	
SW-7-2	3/22/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1120	
SW-7-3	4/19/2023	0-7'	X	-	<25.0	<25.0	<25.0	<25.0	<0.025	<0.050	<0.050	<0.150	<0.275	240	
SW-8	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.00990	<0.00198	<0.00198	465	
SW-9	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.00990	<0.00198	<0.00198	3110	
SW-9-2	3/22/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1110	
SW-9-3	4/19/2023	0-7'	X	-	<25.0	<25.0	<25.0	<25.0	<0.025	<0.050	<0.050	<0.150	<0.275	112	
SW-10	3/1/2023	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00501	<0.00100	<0.00200	<0.00200	464	
SW-11	3/1/2023	0-6.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	1280	
SW-11-2	3/22/2022	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	52.5	
SW-12	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	491	
SW-13	3/1/2023	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	1430	
SW-13-2	3/22/2022	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	56.9	
SW-14	3/1/2023	0-6.5'	-	X	<50.0	79.2	<50.0	79.2	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	891	
SW-14-2	3/22/2022	0-6.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	684	
SW-14-3	4/19/2023	0-6.5'	X	-	<25.0	<25.0	<25.0	<25.0	<0.025	<0.050	<0.050	<0.150	<0.275	48.0	



Table 2  
Confirmation Analytical Results  
Western Midstream  
Red Hills Phase 2 and 3  
Eddy County, New Mexico

Sample ID	Sample Date	Excavtion 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							
RRALs					100 mg/kg				10 mg/kg				50 mg/kg		600 mg/kg
SW-15	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.000998	<0.00499	<0.000998	<0.00200	<0.00200	352	
SW-16	3/1/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	89.4	
SW-17	3/22/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	165	
SW-18	3/22/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	81.5	
SW-19	3/22/2023	0-6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	156	
SW-20	3/22/2023	0-6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	162	

**NOTES**  
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.  
All screening values and results are presented in milligrams per kilogram (mg/kg)  
**Bolded cells represent a detected concentration above the respective screening value.**  
< = analyte was not detected above the respective sample detection limit  
ft = feet below ground surface  
(-) = not analyzed for respective constituent  
TPH = total petroleum hydrocarbons  
BTEX = benzene, toluene, ethylbenzene, xylene  

Exceedance





# Appendix A

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C-141 and NMOCD Correspondence



**Faught, John**

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Monday, January 30, 2023 2:45 PM  
**To:** Faught, John  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** FW: [EXTERNAL] Western Midstream Red Hills nAPP2121527146 & nAPP2121527498 Extension Request  
**Attachments:** Figure 1 Final.pdf; RE: [EXTERNAL]: RE: [EXTERNAL] Delaware Basin Midstream Extension C-141 Resubmittal of Incident nAPP2121527146

**⚠ CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. **⚠**

Hello John

OCD has reviewed your request for both of the releases referenced in your email below and we have approved your request for a 90-day extension to April 30, 2023. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

nAPP2121527146 & nAPP2121527498

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, January 30, 2023 1:32 PM  
**To:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Western Midstream Red Hills nAPP2121527146 & nAPP2121527498 Extension Request

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Faught, John <[JOHN.FAUGHT1@tetrattech.com](mailto:JOHN.FAUGHT1@tetrattech.com)>  
**Sent:** Monday, January 30, 2023 12:48 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Shepherd, Alex <[Alex.Shepherd@westernmidstream.com](mailto:Alex.Shepherd@westernmidstream.com)>; Weigand, Russell <[Russell.Weigand@tetrattech.com](mailto:Russell.Weigand@tetrattech.com)>; Long, Brittany <[Brittany.Long@tetrattech.com](mailto:Brittany.Long@tetrattech.com)>  
**Subject:** [EXTERNAL] Western Midstream Red Hills nAPP2121527146 & nAPP2121527498 Extension Request



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

Good afternoon,

My name is John Faught with Tetra Tech, Inc., I hope you are surviving the weather!

Jeff Doerr, the former environmental representative for Western Midstream was communicating with the NMOCD regarding NMOCD Incident ID #s: nAPP2121527146 and nAPP2121527498. On September 19, 2022 Mr. Doerr requested a one month extension to complete additional sampling at the site in order to assess any regulatory deficiencies and achieve closure of the Site.

Tetra Tech was contracted in September of last year to conduct confirmation sampling at the Western Midstream (Western) Red Hills site and prepare an updated closure report due to a previous closure report, submitted by another Western Midstream subcontractor on April 26<sup>th</sup>, 2022 for this site, being rejected by the NMOCD. Subsequent to confirmation sampling activities conducted by Tetra Tech, it was determined that additional excavation and confirmation sampling would be required in order to meet regulatory requirements for site closure. The proposed excavation areas are presented in Figure 1 attached. Since the additional activities at the site, Mr. Doerr has resigned and communication with the NMOCD on these incidents has been halted.

Tetra Tech, on behalf of Western Midstream, LLC is requesting a 90-day extension to complete additional remediation, sampling activities, and to submit a final closure report. Please let me know if you have any questions or concerns regarding the extension request and I would be happy to assist you. Thank you for your time and patience.

Have a great day,

**John Faught, GIT** | Project Manager  
Mobile +1 (432) 222-6197 | [john.faught1@tetrattech.com](mailto:john.faught1@tetrattech.com)

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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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## Release Notification

### Responsible Party

Responsible Party Delaware Basin Midstream	OGRID 314437
Contact Name Alex Shepherd	Contact Telephone 903.690.3758
Contact email alex.shepherd@westernmidstream.com	Incident # (assigned by OCD) 39488
Contact mailing address 831 S. East Ave, Kermit, TX 79745	

### Location of Release Source

Latitude 32.006074 Longitude -103.90745  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Red Hills Phase 2	Site Type Midstream (pipeline)
Date Release Discovered 8/2/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
				Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.68	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Internal corrosion suspected.



Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The fluid was release to the ground. No freestanding liquid was recovered. This release along a ROW (right of way) where no berms, dikes, etc were available or necessary.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Alex Shepherd, REM</u>	Title: <u>Environmental Manager</u>
Signature: <u><i>Alex Shepherd, REM</i></u>	Date: <u>5/4/2023</u>
email: <u>alex.shepherd@westernmidstream.com</u>	Telephone: <u>903-690-3758</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____	



Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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.



Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

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: Alex Shepherd, REM Title: Environmental Manager  
Signature: *Alex Shepherd, REM* Date: 5/4/2023  
email: alex.shepherd@westernmidstream.com Telephone: 903-690-3758

**OCD Only**

Received by: Jocelyn Harimon Date: 05/04/2023



Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## 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: Alex Shepherd, REM

Title: Environmental Manager

Signature: Alex Shepherd, REM

Date: 5/4/23

email: alex.shepherd@westernmidstream.com

Telephone: 903-690-3758

**OCD Only**

Received by: Jocelyn Harimon

Date: 05/04/2023

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: \_\_\_\_\_ Date: \_\_\_\_\_

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



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 Department

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

394

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

## Release Notification

### Responsible Party

Responsible Party Delaware Basin Midstream	OGRID 314437
Contact Name Alex Shepherd	Contact Telephone 903.690.3758
Contact email alex.shepherd@westernmidstream.com	Incident # (assigned by OCD) 39490
Contact mailing address 831 S. East Ave, Kermit, TX 79745	

### Location of Release Source

Latitude 32.006074 Longitude -103.90745  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Red Hills Phase 3	Site Type Midstream (pipeline)
Date Release Discovered 7/10/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
				Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 3.94	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Internal corrosion



Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? NA
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: The fluid was release to the ground. No freestanding liquid was recovered. This release along a ROW (right of way) where no berms, dikes, etc were available or necessary.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: Alex Shepherd, REM	Title: Environmental Manager
Signature: <u>Alex Shepherd, REM</u>	Date: 5/4/2023
email: alex.shepherd@westernmidstream.com	Telephone: 903-690-3758
<b><u>OCD Only</u></b> Received by: _____ Date: _____	



Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

## 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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.



Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

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: Alex Shepherd, REM Title: Environmental Manager  
Signature: *Alex Shepherd, REM* Date: 5/4/2023  
email: alex.shepherd@westernmidstream.com Telephone: 903-690-3758

**OCD Only**

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



Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	nAPP2121527498

## 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: Alex Shepherd, REM Title: Environmental Manager  
Signature: *Alex Shepherd, REM* Date: 5/4/23  
email: alex.shepherd@westernmidstream.com Telephone: 903-690-3758

**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: \_\_\_\_\_ Date: \_\_\_\_\_

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



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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	39490
District RP	Artesia
Facility ID	
Application ID	NAPP2121527498

## Release Notification

### Responsible Party

Responsible Party Delaware Basin Midstream	OGRID 314437
Contact Name Jeffrey Doerr	Contact Telephone 432-638-7693
Contact email Jeff.Doerr@westernmidstream.com	Incident # (assigned by OCD) 39490
Contact mailing address 831 S. East Ave Kermit, TX 79745	

### Location of Release Source

Latitude 32.006074 Longitude -103.90745  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Red Hills Phase 3	Site Type Midstream (pipeline)
Date Release Discovered 7/10/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
				Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 3.94	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Internal Corrosion




Incident ID	NAPP2121527498
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  N/A	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  The fluid was released to the ground. No freestanding liquid was recovered. This release along a ROW (right of way) where no berms, dikes, etc were available or necessary.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: Jeff Doerr	Title: Environmental Representative II
Signature: 	Date: 8/3/2021
email: jeff.doerr@westernmidstream.com	Telephone: 432-638-7693
<b><u>OCD Only</u></b>	
Received by: Ramona Marcus	Date: 8/3/2021



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	

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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



Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	
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: \_\_\_\_\_ 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: \_\_\_\_\_ Date: \_\_\_\_\_

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



**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 39495

CONDITIONS

Operator: DELAWARE BASIN MIDSTREAM, LLC 9950 Woodloch Forest Drive The Woodlands, TX 77380	OGRID: 314437
	Action Number: 39495
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	8/3/2021



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 Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	39488
District RP	Artesia
Facility ID	
Application ID	nAPP2121527146

## Release Notification

### Responsible Party

Responsible Party Delaware Basin Midstream	OGRID 314437
Contact Name Jeffrey Doerr	Contact Telephone 432-638-7693
Contact email Jeff.Doerr@westernmidstream.com	Incident # (assigned by OCD) 39488
Contact mailing address 831 S. East Ave Kermit, TX 79745	

### Location of Release Source

Latitude 32.006074 Longitude -103.90745  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Red Hills Phase 2	Site Type Midstream (pipeline)
Date Release Discovered 8/02/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
				Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.68	Volume Recovered (bbls) 0
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Internal corrosion suspected




Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  N/A
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  N/A	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  The fluid was released to the ground. No freestanding liquid was recovered. This release along a ROW (right of way) where no berms, dikes, etc were available or necessary.	
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Printed Name: Jeff Doerr	Title: Environmental Representative II
Signature: 	Date: 8/3/2021
email: jeff.doerr@westernmidstream.com	Telephone: 432-638-7693
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	



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
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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
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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
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State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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



Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	
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
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- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Signature: \_\_\_\_\_ 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: \_\_\_\_\_ Date: \_\_\_\_\_

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



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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1000 Rio Brazos Rd., Aztec, NM 87410  
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**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 39497

CONDITIONS

Operator: DELAWARE BASIN MIDSTREAM, LLC 9950 Woodloch Forest Drive The Woodlands, TX 77380	OGRID: 314437
	Action Number: 39497
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	8/3/2021





## Appendix B

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### Stingray Environmental and Construction Closure Reports



# **Western Midstream**

**830 S. East Ave.  
Kermit, Texas 79745**

## **Site Remediation Report**

### **Western Midstream Redhills Phase 3 and Phase 2 Eddy County, New Mexico**

**Western Midstream Incident #s 16018/16275**

**Red Hills Phase 3 – OCD job# 39490 Release date: 7/10/2021**

**Red Hills Phase 2 – OCD job# 39488 Release date: 8/2/2021**



**9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180**



## TABLE OF CONTENTS

1. Summary
2. Photo documents
  - Beginning photos
  - Excavation photos
  - Final photos
3. Maps
  - Plat map
  - TWDB depth to groundwater
  - Distance to nearest city
4. Appendix 1
  - Analytical Report (Field Analysis)
  - Analytical Lab Summary
  - Lab reports
  - Chain of custodies
5. Appendix 2
  - R360 manifests





9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180

## **Soil Remediation Summary for Western Midstream Redhills Phase 3 and Phase 2**

### **1.0 INTRODUCTION**

A release of produced water occurred at the Western Midstream Redhills Phase 3 and Phase 2 in Eddy County, New Mexico. Western Midstream representative Jeff Doerr retained the services of Stingray Environmental and Construction to remediate this release.

#### **1.1 Site Description**

The site is located in an active oil & gas field approximately 12.5 miles North of Orla, Texas in Eddy County, New Mexico. The release was caused from internal corrosion causing produced water to contact the surrounding soil. These 2 releases occurred on July 10, 2021 and August 2, 2021 and impacted approximately 2,880 square feet of pipeline right of way. There were no impacts to surface water impoundments or waterways due to this release. The Texas Water Development Board (TWDB) groundwater database shows depth to groundwater at the nearest well being 42.7 feet below ground surface (BGS).

#### **1.2 Scope of Work**

Stingray Environmental and Construction's representatives in conjunction with Western Midstream's personnel and guidance from the New Mexico Administrative Code, Title 19 chapter 15, developed the following Scope of Work for this project:

1. Excavate the spill-impacted soil.
2. Following excavation procedures, collect confirmation soil samples of the excavated area for Chloride, TPH and BTEX lab analysis.



3. Haul contaminated material to R360 Red Bluff in waste hauler permitted trucks for disposal.
4. Subsequent to Chloride, TPH and BTEX analyses confirming targeted cleanup levels, backfill the excavated area with material brought in from a local mine and restore site to previous state.

### **1.3 Standard of Care**

Stingray Environmental and Construction's services were performed in a manner consistent with generally accepted practices of the profession undertaken during the same period. Stingray Environmental and Construction makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Stingray Environmental and Construction does not warrant the work of laboratories, regulatory agencies or other third parties supplying information or used in the preparation of the report.

### **1.4 Scope Limitations**

Findings, conclusions and recommendations resulting from these services were based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during these remediation activities. The data, interpretations, findings, and our recommendations were based solely upon information obtained at the time and within the scope of these services.

## **2.0 FIELD ACTIVITIES**

### **2.1 Excavation**

Stingray Environmental and Construction began excavation on August 17, 2021 to bring all impacted soils to the surface. The spill yielded approximately 200 cubic yards of spill-impacted material. Confirmation soil samples of the excavation bottom were collected for laboratory analysis of TPH using Method TX1005, chloride analysis and BTEX.

### **2.2 Remediation and Restoration**

Approximately 200 cubic yards of spoil material was loaded in trucks with waste haulers permits and disposed of at the R360 Red Bluff facility. Approximately 200 cubic yards of fresh top soil from a local mine was used to backfill and dress out site. The site restoration was completed approximately August 27, 2021.

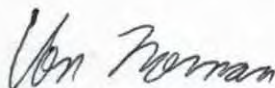


### 2.3 Soil Sampling

Confirmation soil samples were collected from the excavated areas bottom for chloride analysis, TPH analysis using Method TX1005 and BTEX by an independent laboratory. Soil samples collected for confirmation were placed in laboratory prepared glassware, sealed with custody tape and placed on ice in a secured cooler. The samples and completed chain of custody were relinquished to PBELab, Inc. in Midland, Texas for analysis. The executed chain-of-custody forms, laboratory results summary, data sheets and laboratory results are provided in the Appendix 1 of the report.

### 3.0 FINDINGS AND CONCLUSIONS

Based on the analytical results all contaminated soils were brought to the surface and properly disposed of at a state approved facility. Based on results of our field activities and laboratory analysis, the target standards for TPH, Chlorides and BTEX in soil has been obtained. Western Midstream Petroleum requests a "No Further Action Required at this Time" for this site.



Von Norman  
Project Manager



# **Photo Documents**





**Beginning Photos Phase 3**





**Beginning Photos Phase 2**





Excavation Photos Phase 2 and Phase 3





Excavation Photos Pahe 3 and Phase 2





**Final Photos Phase 2 and Phase 3**



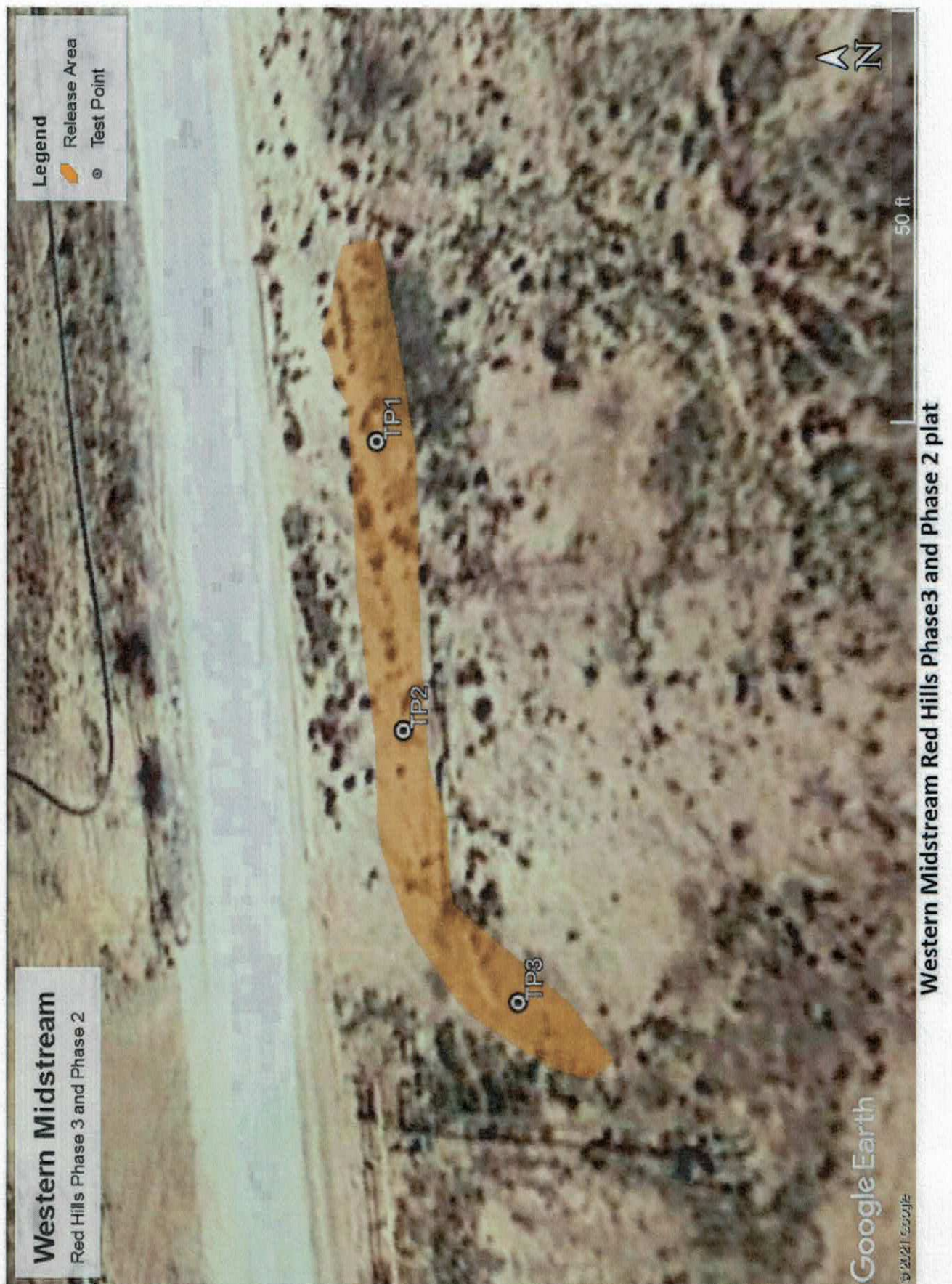


Final Photos Phase 3 and Phase 2

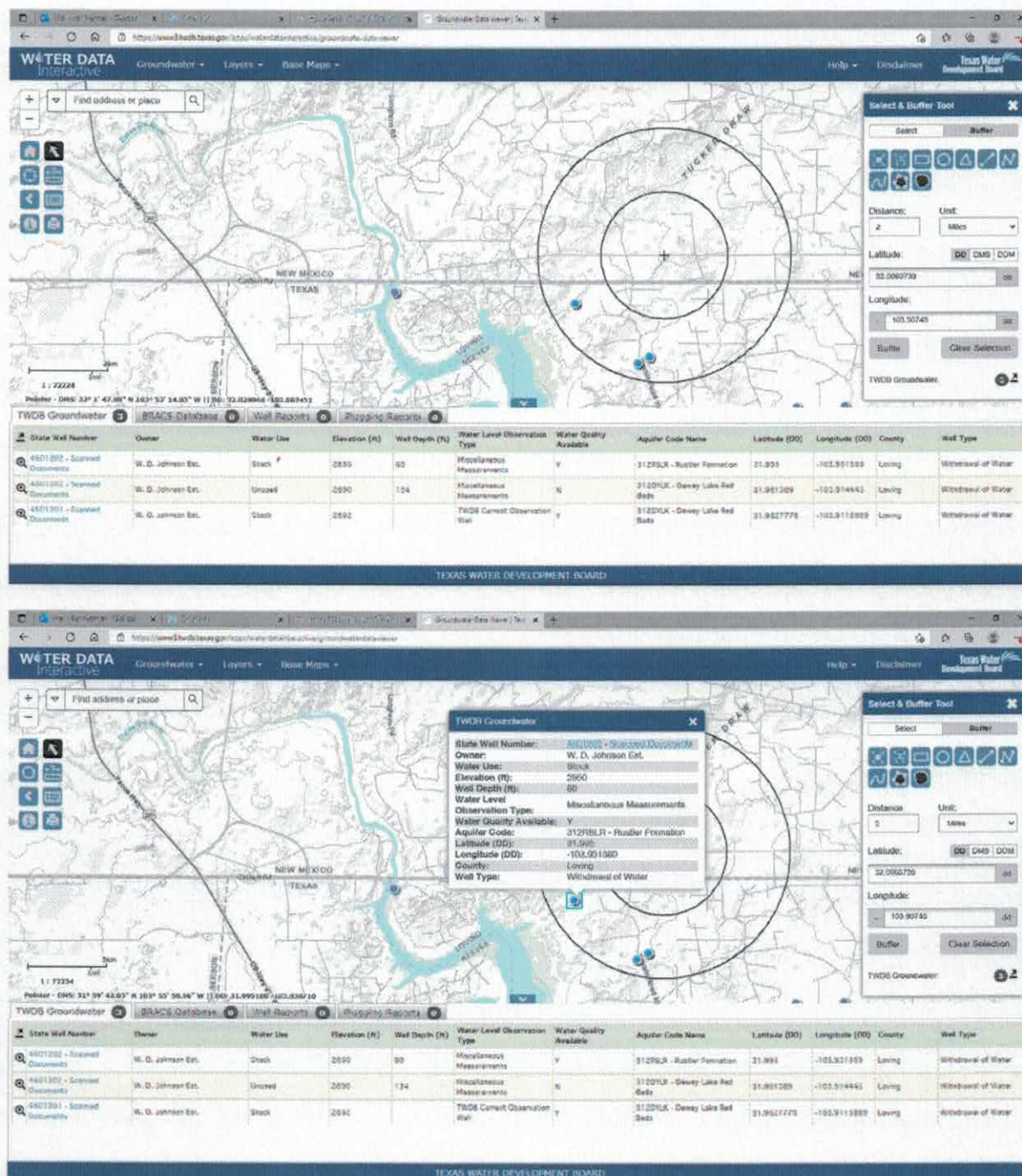


# Maps









The nearest well with water data to the Western Midstream Red Hills Phase 3 and Phase 2 site is well number 4601202 and reflects a depth to ground water of 42.7 feet below ground surface (BGS). This information comes from the Texas Water Development Board Water Data Interactive web site.





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



## GWDB Reports and Downloads

## Well Basic Details

## Scanned Documents

State Well Number	4601202
County	Loving
River Basin	Rio Grande
Groundwater Management Area	3
Regional Water Planning Area	F - Region F
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	31.995
Latitude (degrees minutes seconds)	31° 59' 42" N
Longitude (decimal degrees)	-103.931389
Longitude (degrees minutes seconds)	103° 55' 53" W
Coordinate Source	+/- 1 Second
Aquifer Code	312RSLR - Rustler Formation
Aquifer	Rustler
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	2850
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	80
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	6/6/1966
Drilling Method	Cable Tool
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	W. D. Johnson Est.
Driller	Holder Water Well Drilling and Service
Other Data Available	Drillers Log; Specific Capacity
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	4/19/1995
Last Update Date	3/4/2020

**Remarks** Reported yield 3 GPM with 24 feet drawdown in 1966. Specific capacity 0.12 GPM/ft.

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	80

**Well Tests - No Data****Lithology**

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	4	surface sand and gravel
4	31	gyp rock
31	47	sandy clay
47	62	gravel and clay
62	78	sand and gravel (water)
78	80	anhydrite and gyp

**Annular Seal Range - No Data**





Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202



---

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

---



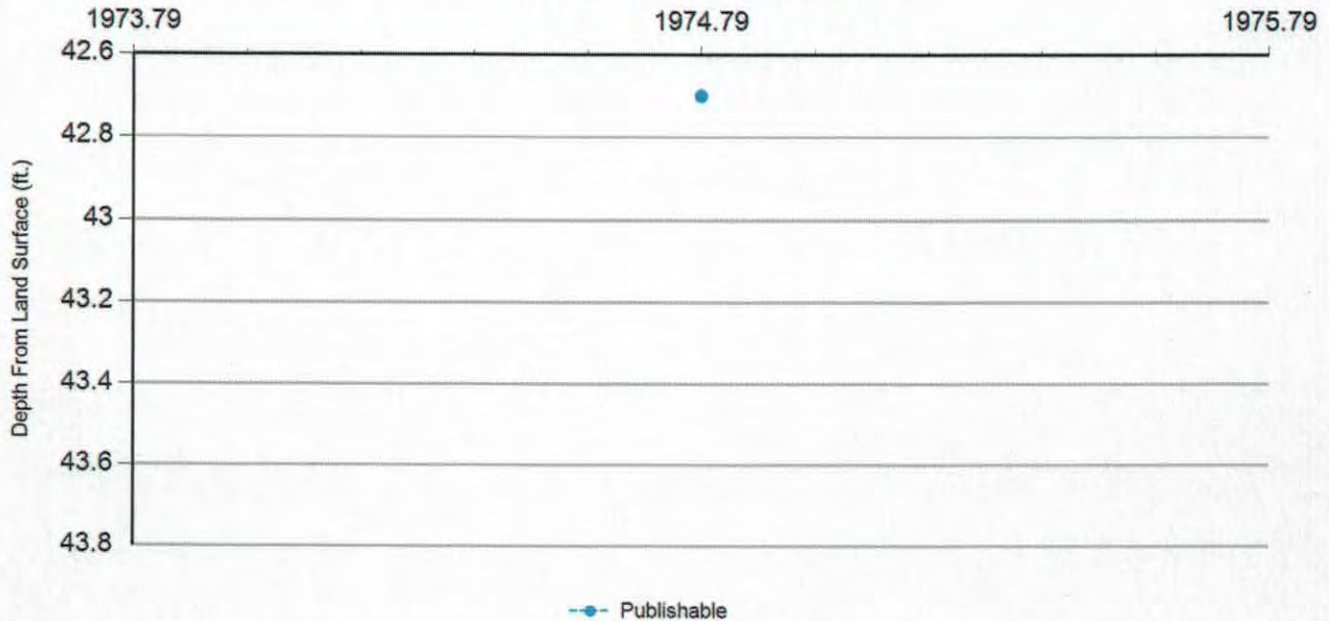


**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



### Water Level Measurements

Measurement Year (with decimal months)



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/17/1974		42.7		2807.3	1	Texas Water Development Board	Steel Tape		

#### Code Descriptions

Status Code	Status Description
P	Publishable





**Texas Water Development Board (TWDB)**  
**Groundwater Database (GWDB)**  
**Well Information Report for State Well Number**  
**46-01-202**



### Water Quality Analysis

**Sample Date:** 4/19/1995    **Sample Time:** 1400    **Sample Number:** 1    **Collection Entity:** Texas Water Development Board

**Sampled Aquifer:** Rustler Formation

**Analyzed Lab:** Texas Department of Health

**Reliability:** Sampled using TWDB protocols

**Collection Remarks:** No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO <sub>3</sub>		227	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO <sub>3</sub> )		230	mg/L	
01503	ALPHA, DISSOLVED (PC/L)		20	PC/L	3
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	2	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		6	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
03503	BETA, DISSOLVED (PC/L)		22	PC/L	5
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO <sub>3</sub> )		280.68	mg/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.43	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	0.5	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		624	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO <sub>3</sub> )		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		349	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	8	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	8	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		21	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.44	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO <sub>3</sub> )		2356	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		46	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		130	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		192	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	50	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		6.84	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO <sub>3</sub> )		30.28	mg/L	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	<	0.01	mg/L	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	<	0.02	mg/L	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.7	mg/L	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		-65	MV	





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**

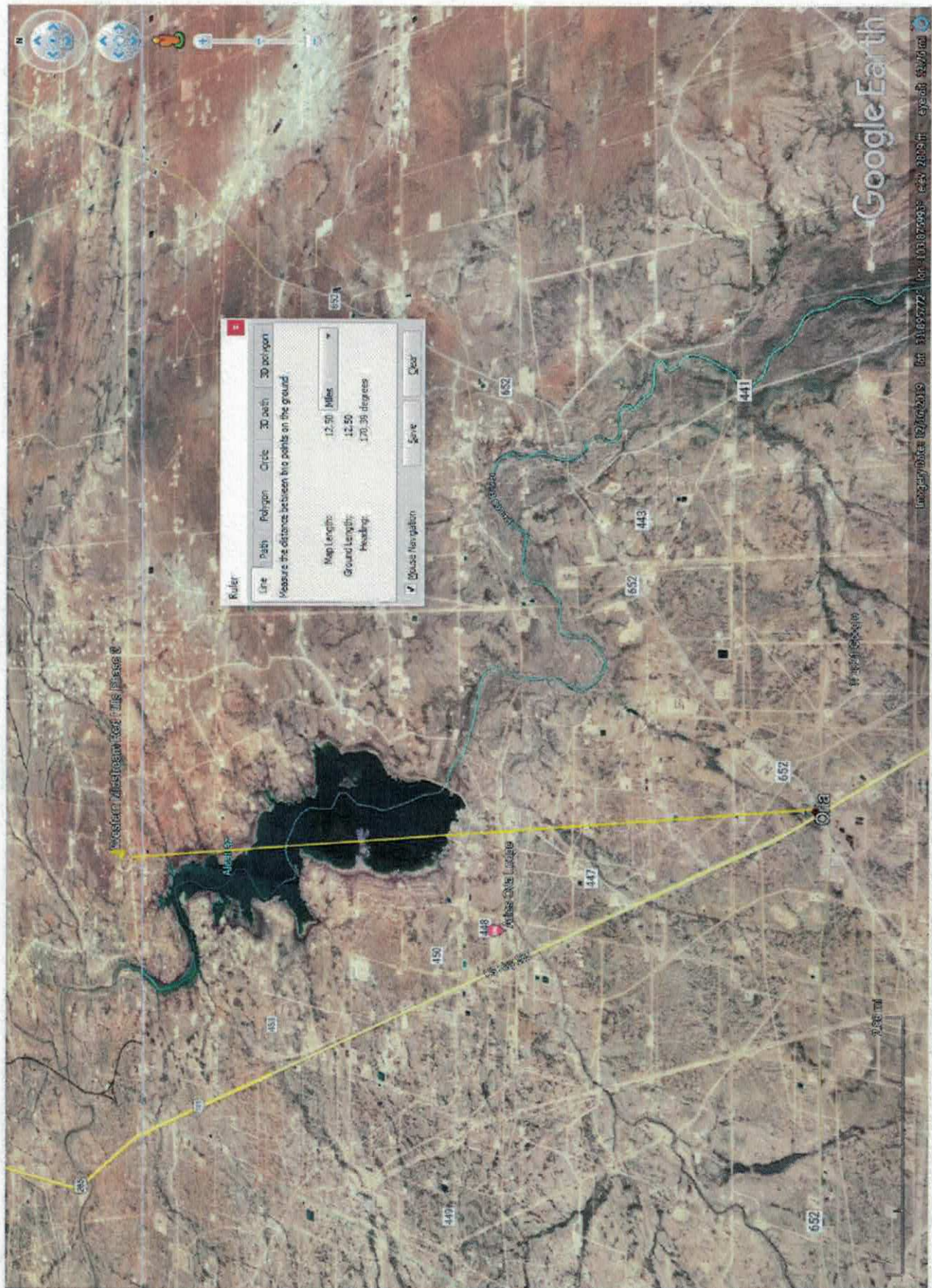


Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		6.85	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		12	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		12.8	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		37	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	6	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.36		
00932	SODIUM, CALCULATED, PERCENT		12	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		152	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		8770	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		1960	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		20.2	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	2	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		3504	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	8	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		274	ug/L	

\* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

**GWDB DISCLAIMER:** Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<http://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).





The Western Midstream Redhills Phase 3 and Phase 2 site is approximately 12.5 miles North of Orla, Texas.



# **Appendix 1**





## ANALYST: Von Norman CONTACT # 432-202-4180

[illegible]

0  
ANALYST NOTES: TPH field analysis by EPA Method 418.1 (modified)

### Chloride field analysis by silver nitrate method



## FIELD ANALYTICAL REPORT BACKGROUND

A portable TPH analyzer was used in accordance with EPA Method 418.1, to expedite the evaluation of delineation and dilution needs during the excavation phase of work required under SWR 3.91(d)(1). Once it was determined using the TPH portable analyzer that affected soils were brought to the surface and successfully reduced to <1% TPH, a representative soil sample of the excavation bottoms and composite sample of the spoil pile were taken and stabilized using ice and shipped to a certified laboratory for TPH analysis using Method TX 1005. Those sample results are included in this report in the following pages of Appendix 1.

The field portable TPH analyzer used in the field has the following manufacturer and model information:

Manufacturer: Wilks  
Instrument name: Infracal 2  
Model: TRANS-SP  
from Spectro Scientific.





11420 W. County Rd 33 Midland, Texas 79710

## LAB ANALYTICAL SUMMARY

CLIENT: Western Midstream

SITE: Redhills Phase 3 and Phase 2

ANALYST: Von Norman CONTACT # 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	TPH/ppm	SAMPLE NOTE
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03
			<b>Chlorides</b>	
TP1	8-20-21	6'	105	1H31003-01
TP2	8-20-21	2.5'	96	1H31003-02
TP3	8-20-21	6'	113	1H31003-03
			<b>BTEX</b>	
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03

ANALYST NOTES: Summary of PBEL lab report # 1H31003.



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report

**Prepared for:**

Von Norman  
Stingray Environmental & Construction  
9013 West County Road 160  
Midland, TEXAS 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2

Location:

Lab Order Number: 1H31003



**Current Certification**

Report Date: 09/02/21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1	1H31003-01	Soil	08/20/21 13:00	08-31-2021 11:15
TP2	1H31003-02	Soil	08/20/21 13:30	08-31-2021 11:15
TP3	1H31003-03	Soil	08/20/21 14:00	08-31-2021 11:15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP1**  
**1H31003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Permian Basin Environmental Lab, L.P.</b>									
<b>BTEX by 8021B</b>									
Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.5 %		80-120		P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
<b>Organics by GC</b>									
C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: o-Terphenyl	119 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:03	[CALC]	
<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	105	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 14:56	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP2**  
**1H31003-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	114 %		80-120		P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	

**Organics by GC**

C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: o-Terphenyl	119 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:25	[CALC]	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	96.0	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:42	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP3**  
**1H31003-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Permian Basin Environmental Lab, L.P.</b>									
<b>BTEX by 8021B</b>									
Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.1 %		80-120		P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	115 %		80-120		P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
<b>Organics by GC</b>									
C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: o-Terphenyl	120 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:47	[CALC]	
<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	113	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:57	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch P110102 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P110102-BLK1)**

Prepared & Analyzed: 09/01/21

Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108		80-120	
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7		80-120	

**LCS (P110102-BS1)**

Prepared & Analyzed: 09/01/21

Benzene	0.100	0.00100	mg/kg wet	0.100		100		70-130	
Toluene	0.0989	0.00100	"	0.100		98.9		70-130	
Ethylbenzene	0.0949	0.00100	"	0.100		94.9		70-130	
Xylene (p/m)	0.196	0.00200	"	0.200		98.0		70-130	
Xylene (o)	0.0803	0.00100	"	0.100		80.3		70-130	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102		80-120	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5		80-120	

**LCS Dup (P110102-BSD1)**

Prepared & Analyzed: 09/01/21

Benzene	0.0942	0.00100	mg/kg wet	0.100		94.2	70-130	6.01	20
Toluene	0.0939	0.00100	"	0.100		93.9	70-130	5.23	20
Ethylbenzene	0.0886	0.00100	"	0.100		88.6	70-130	6.96	20
Xylene (p/m)	0.185	0.00200	"	0.200		92.3	70-130	5.96	20
Xylene (o)	0.0801	0.00100	"	0.100		80.1	70-130	0.262	20
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120		
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120		

**Matrix Spike (P110102-MS1)**

Source: 1H31003-03

Prepared & Analyzed: 09/01/21

Benzene	0.0709	0.00103	mg/kg dry	0.103	ND	68.8	80-120		QM-07
Toluene	0.0585	0.00103	"	0.103	ND	56.8	80-120		QM-07
Ethylbenzene	0.0487	0.00103	"	0.103	ND	47.2	80-120		QM-07
Xylene (p/m)	0.0979	0.00206	"	0.206	ND	47.5	80-120		QM-07
Xylene (o)	0.0430	0.00103	"	0.103	ND	41.8	80-120		QM-07
Surrogate: 1,4-Difluorobenzene	0.128		"	0.124		103	80-120		
Surrogate: 4-Bromofluorobenzene	0.115		"	0.124		92.8	80-120		



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P110102 - \*\*\* DEFAULT PREP \*\*\***

Matrix Spike Dup (P110102-MSD1)		Source: 1H31003-03			Prepared & Analyzed: 09/01/21					
Benzene	0.0835	0.00103	mg/kg dry	0.103	ND	81.0	80-120	16.3	20	
Toluene	0.0766	0.00103	"	0.103	ND	74.3	80-120	26.8	20	QM-07
Ethylbenzene	0.0694	0.00103	"	0.103	ND	67.3	80-120	35.0	20	QM-07
Xylene (p/m)	0.141	0.00206	"	0.206	ND	68.5	80-120	36.3	20	QM-07
Xylene (o)	0.0609	0.00103	"	0.103	ND	59.0	80-120	34.3	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.124		87.9	80-120			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3107 - TX 1005</b>										
<b>Blank (P1H3107-BLK1)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
<b>LCS (P1H3107-BS1)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	924	25.0	mg/kg wet	1000		92.4	75-125			
>C12-C28	857	25.0	"	1000		85.7	75-125			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			
<b>LCS Dup (P1H3107-BSD1)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	922	25.0	mg/kg wet	1000		92.2	75-125	0.216	20	
>C12-C28	840	25.0	"	1000		84.0	75-125	2.00	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			
<b>Calibration Check (P1H3107-CCV1)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	448	25.0	mg/kg wet	500		89.6	85-115			
>C12-C28	463	25.0	"	500		92.6	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			
<b>Calibration Check (P1H3107-CCV2)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	442	25.0	mg/kg wet	500		88.5	85-115			
>C12-C28	460	25.0	"	500		92.0	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1H3107 - TX 1005**

**Calibration Check (P1H3107-CCV3)**

Prepared & Analyzed: 08/31/21

C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

**Matrix Spike (P1H3107-MS1)**

Source: 1H31003-03

Prepared & Analyzed: 08/31/21

C6-C12	875	25.8	mg/kg dry	1030	ND	84.9	75-125			
>C12-C28	800	25.8	"	1030	21.8	75.5	75-125			
Surrogate: 1-Chlorooctane	104		"	103		100	70-130			
Surrogate: o-Terphenyl	56.0		"	51.5		109	70-130			

**Matrix Spike Dup (P1H3107-MSD1)**

Source: 1H31003-03

Prepared & Analyzed: 08/31/21

C6-C12	872	25.8	mg/kg dry	1030	ND	84.5	75-125	0.381	20	
>C12-C28	812	25.8	"	1030	21.8	76.7	75-125	1.52	20	
Surrogate: 1-Chlorooctane	104		"	103		101	70-130			
Surrogate: o-Terphenyl	56.3		"	51.5		109	70-130			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3108 - *** DEFAULT PREP ***</b>									
<b>Blank (P1H3108-BLK1)</b>	Prepared & Analyzed: 08/31/21								
Chloride	ND	1.00	mg/kg wet						
<b>LCS (P1H3108-BS1)</b>	Prepared & Analyzed: 08/31/21								
Chloride	402	1.00	mg/kg wet	400		101	90-110		
<b>LCS Dup (P1H3108-BSD1)</b>	Prepared & Analyzed: 08/31/21								
Chloride	406	1.00	mg/kg wet	400		101	90-110	0.888	20
<b>Calibration Blank (P1H3108-CCB1)</b>	Prepared & Analyzed: 08/31/21								
Chloride	-0.206		mg/kg wet						
<b>Calibration Blank (P1H3108-CCB2)</b>	Prepared & Analyzed: 08/31/21								
Chloride	0.00		mg/kg wet						
<b>Calibration Check (P1H3108-CCV1)</b>	Prepared & Analyzed: 08/31/21								
Chloride	19.6		mg/kg	20.0		98.0	90-110		
<b>Calibration Check (P1H3108-CCV2)</b>	Prepared & Analyzed: 08/31/21								
Chloride	19.9		mg/kg	20.0		99.5	90-110		
<b>Calibration Check (P1H3108-CCV3)</b>	Prepared & Analyzed: 08/31/21								
Chloride	19.3		mg/kg	20.0		96.4	90-110		
<b>Matrix Spike (P1H3108-MS1)</b>	<b>Source: 1H31003-01</b>		Prepared & Analyzed: 08/31/21						
Chloride	602	1.03	mg/kg dry	515	105	96.5	80-120		
<b>Matrix Spike (P1H3108-MS2)</b>	<b>Source: 1H27004-02</b>		Prepared & Analyzed: 08/31/21						
Chloride	3640	11.8	mg/kg dry	1180	2320	112	80-120		



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1H3108 - \*\*\* DEFAULT PREP \*\*\***

**Matrix Spike Dup (P1H3108-MSD1)**      **Source: 1H31003-01**      Prepared & Analyzed: 08/31/21

Chloride	597	1.03	mg/kg dry	515	105	95.4	80-120	0.949	20	
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**Matrix Spike Dup (P1H3108-MSD2)**      **Source: 1H27004-02**      Prepared & Analyzed: 08/31/21

Chloride	3580	11.8	mg/kg dry	1180	2320	107	80-120	1.56	20	
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**Batch P1I0104 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P1I0104-BLK1)**      Prepared & Analyzed: 09/01/21

% Moisture	ND	0.1	%							
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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

### Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 9/2/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.







# **Appendix 2**





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Ornel DominguezPhone No. 432-634-3620

## GENERATOR

NO.

200871

Operator No.

Operator's Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

ROSS PRAN 29 FCL Conn #1

END

30-UK-32106

NORM BRILLIANT

## EXEMPT E&amp;P Waste/Service Identification and Amount (Please volume next to waste type in barrels or cubic yards)

Oil Based Muds

Oil Based Cuttings

Water Based Muds

Water Based Cuttings

Produced Formation Solids

Tank Bottoms

E&amp;P Contaminated Soil

Gas Plant Waste

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable)

Completion Fluid/Flow back (Non-Injectable)

Produced Water (Non-Injectable)

Gathering Line Water/Waste (Non-Injectable)

## INTERNAL USE ONLY

Truck Washout (exempt waste)

## OTHER EXEMPT WASTES (Type and generation process of the waste)

EMO Dump

WASTE GENERATION PROCESS:



DRILLING



COMPLETION



PRODUCTION



GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other

\*please select from 'Non-Exempt Waste List' on back

QUANTITY

B - BARRELS

Y - YARDS

15

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

Ornel Dominguez  
(PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

Ornel Dominguez  
SIGNATURE

## TRANSPORTER

Transporter's

Name

Address

Phone No.

CLASSIC

P.O. Box 1545

Stephenville, TX 76401

325-340-0745

Driver's Name

Print Name

Phone No.

Truck No.

John R

190

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20

SHIPMENT DATE

John R

DRIVER'S SIGNATURE

08-20-21

DELIVERY DATE

John R

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:21 PM OUT:

## DISPOSAL FACILITY

## RECEIVING AREA

Site Name/

Permit No.

Address

Red Bluff Facility/ STF-065

5053 US Highway 285, Oita, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chloride

Conductivity

Chemical Analysis (Mg/l)

(mmhos/cm)

pH

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLs Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

John R  
NAME (PRINT)

08-20-21  
DATE

John R  
TITLE

John R  
SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Doerr

Phone No. \_\_\_\_\_

## GENERATOR

NO. 230675

Operator No. \_\_\_\_\_

Operator's Name

WESTERN MIDSTREAM

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well

Name &amp; No. \_\_\_\_\_

County

API No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

Ross DRW 29 FED Comm #001EDD30-015-321064601202

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_

Oil Based Cuttings \_\_\_\_\_

Water Based Muds \_\_\_\_\_

Water Based Cuttings \_\_\_\_\_

Produced Formation Solids \_\_\_\_\_

Tank Bottoms \_\_\_\_\_

E&amp;P Contaminated Soil \_\_\_\_\_

Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable) \_\_\_\_\_

Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_

Produced Water (Non-Injectable) \_\_\_\_\_

Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

## INTERNAL USE ONLY

Truck Washout (exempt waste) \_\_\_\_\_

## OTHER EXEMPT WASTES (type and generation process of the waste)

WASTE GENERATION PROCESS:



DRILLING



COMPLETION



PRODUCTION



GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), irritability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

Y - YARDS 115

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Opal Dominguez  
(PRINT) AUTHORIZED AGENTS SIGNATURE

08-20  
DATE

John Q  
SIGNATURE

## TRANSPORTER

Transporter's

Name

CLASSIC

Address

P.O. Box 1545

Phone No.

Stephenville, TX 76441325-344-0745

Driver's Name

John Q

Print Name

Phone No.

Truck No.

140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20  
SHIPMENT DATE

John Q  
DRIVER'S SIGNATURE

08-20  
DELIVERY DATE

John Q  
DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 2:29 PM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/

Red Bluff Facility/ STF-065

Permit No. \_\_\_\_\_

Address

5053 US Highway 285, Orla, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Chloride

Conductivity

(mmhos/cm)

pH

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 230676
 Operator No. \_\_\_\_\_  
 Operator's Name WESTERN MIDSTREAM  
 Address \_\_\_\_\_

 Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Russ 17K14W 29 Feet Conn. #201  
 County EL DHO  
 API No. 30-015-32106  
 Rig Name & No. 4601202  
 AFE/PO No. \_\_\_\_\_

 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

 WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

 QUANTITY 7 B - BARRELS 15 YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Donna Dyer  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

Donna Dyer  
 SIGNATURE

## TRANSPORTER

 Transporter's Name CLASSIC  
 Address P.O. Box 1545  
Stephenville, TX 76781  
 Phone No. 325-340-0745

 Driver's Name John R  
 Print Name \_\_\_\_\_  
 Phone No. \_\_\_\_\_  
 Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20

SHIPMENT DATE

John R  
 DRIVER'S SIGNATURE

08-20

DELIVERY DATE

John R  
 DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 1:20 OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DI
 Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239
 NORM READINGS TAKEN? (Circle One) (YES) NO

Chloride

 If YES, was reading > 50 micro roentgens? (circle one) YES NO  
 Conductivity (mmhos/cm) 7 pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

Feet

Inches

1st Gauge	
2nd Gauge	
Received	

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

 I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

Donna Dyer  
 NAME (PRINT)

08-20-21

DATE

TITLE

SIGNATURE



GENERATOR		NO. 230670
Operator No.	Permit/RRC No.	
Operators Name Western Midstream	Lease/Well Name & No. Ross Draw 29 Fed Com #001	
Address	County Eddy	
	API No. 30-015-32106	
City, State, Zip	Rig Name & No. NON-DRILLING	
Phone No.	AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	END DUMP
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount		
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.		
Non-Exempt Other *please select from Non-Exempt Waste List on back		
QUANTITY	B - BARRELS	15 Y - YARDS
		E - EACH
I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.		
<input checked="" type="checkbox"/> RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)		
<input type="checkbox"/> RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)		
<input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Other (Provide Description Below)		

Onal Dom... (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021 DATE

Don... SIGNATURE

TRANSPORTER	
Transporter's Name Classic Crane and Transport, LP	Driver's Name Joey Gray
Address P.O. Box 1545	Print Name Joey Gray
Stephenville, TX 76401	Phone No. 205-361-5000
Phone No. 325-340-0745	Truck No. 141-52

08-20-2021 SHIPMENT DATE

Joey Gray DRIVER'S SIGNATURE

08-20-2021 DELIVERY DATE

Joey Gray DRIVER'S SIGNATURE

TRUCK TIME STAMP		DISPOSAL FACILITY	RECEIVING AREA
IN:	OUT:	Name/No.	
Site Name/ Permit No. Red Bluff Facility/ STF-065	Phone No. 432-448-4239		
Address 5053 US Highway 285, Orla, TX 79770			
NORM READINGS TAKEN? (Circle One) YES NO	If YES, was reading > 50 micro roentgens? (circle one) YES NO		
Chemical Analysis (Mg/l) Chloride	Conductivity (mmhos/cm)	pH	

TANK BOTTOMS			
1st Gauge	Feet	Inches	BS&W/BBLS Received
2nd Gauge			Free Water
Received			Total Received

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT) DATE TITLE SIGNATURE





(PLEASE PRINT)

\*REQUIRED INFORMATION\*

 Company Man Contact Information  
 Name Jeff Doer  
 Phone No. 432-638-7693

## GENERATOR

NO. 230671
 Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

 Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed Com #001  
 County Eddy  
 API No. 30-015-32106  
 Rig Name & No. non-drilling  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<b>END DUMP</b>
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

 WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

 QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Don Dominguez  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021  
 DATE

Don Dominguez  
 SIGNATURE

## TRANSPORTER

 Transporter's Name Classic Crane and Transport, LP  
 Address PO BOX 1545  
Stephenville, TX 76401  
 Phone No. 325 340-0745

 Driver's Name Joey Gray  
 Print Name Joey Gray  
 Phone No. 805 361-5020  
 Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20-2021  
 SHIPMENT DATE

Joey Gray  
 DRIVER'S SIGNATURE

08-20-2021  
 DELIVERY DATE

Joey Gray  
 DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

 Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Oris, TX 79770

 Phone No. 432-448-4239

 NORM READINGS TAKEN? (Circle One) YES NO  
 Chloride  
 Chemical Analysis (Mg/l) \_\_\_\_\_  
 If YES, was reading > 50 micro roentgens? (circle one) YES NO  
 Conductivity (mmhos/cm) \_\_\_\_\_ pH

## TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge			Free Water	
2nd Gauge			Total Received	
Received				

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff DoerPhone No. 409-321-0600

## GENERATOR

NO. 482781

Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed/Com #001  
 County Eddy  
 API No. 30-015-32106  
 Rig Name & No. NON Drilling  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	_____	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity, and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Dmae Domulyn  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021  
 DATE

Don D  
 SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LP  
 Address P.O. Box 1545  
Stephenville, TX 76401  
 Phone No. 325 340-0745

Driver's Name Joey Gray  
 Print Name Joey Gray  
 Phone No. 205 361-5020  
 Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20-2021 Joey Gray  
 SHIPMENT DATE DRIVER'S SIGNATURE

08-20-2021 Joey Gray  
 DELIVERY DATE DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:17 OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
 Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One) YES NO  
 Chloride  
 Chemical Analysis (Mg/l) \_\_\_\_\_  
 If YES, was reading > 50 micro roentgens? (circle one) YES 7 NO  
 Conductivity (mmhos/cm) \_\_\_\_\_ pH

## TANK BOTTOMS

Feet Inches  
 1st Gauge \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

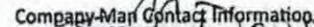
m Steph  
 NAME (PRINT)

8-20-21  
 DATE

RCUR  
 TITLE

ms  
 SIGNATURE





Name Jeff Dore  
Phone No. 438-638-7693

NO. 485128

Operator No. \_\_\_\_\_  
Operators Name Western Midstream  
Address \_\_\_\_\_  
\_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well \_\_\_\_\_  
Name & No. Ross Draw 29 Fed Corn #  
County Eddy  
API No. 30-05-32106  
Rig Name & No. non-drilling  
AFE/PO No. \_\_\_\_\_

Oil Based Muds		NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)	
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings		Produced Water (Non-Injectable)	
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms		INTERNAL USE ONLY	
E&P Contaminated Soil	✓	Truck Washout (exempt waste)	
Gas Plant Waste			END DUMPS
WASTE GENERATION PROCESS:		<input type="checkbox"/> DRILLING	<input type="checkbox"/> COMPLETION
		<input type="checkbox"/> PRODUCTION	<input type="checkbox"/> GATHERING LINES

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCUP), Ignitability, Corrosivity and Reactivity

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY	B - BARRELS	Y - YARDS	E - EACH
		15	

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information      ☐ RCRA Hazardous Waste Analysis      ☐ Other (Provide Description Below)

Amaz Daniguel  
(PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
DATE

*[Signature]*

Transporter's Name Classic  
Address P.O. Box 1545  
St. Phenix, TX 76401  
Phone No. 325-342-0745

Driver's Name Ronnie Bray  
Print Name Ronnie Bray  
Phone No. 325-340-0745  
Truck No. 163

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

IN: 10:09 AM OUT:

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D

Site Name/	Wishbone Facility/ RRC# STF-055
Permit No.	
Address	2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One)  
Chloride  
ysis (Mg/l)

**NO**

If YES, was reading > 50 micro roentgens? (circle one)  
Conductivity  
(mmhos/cm)

YES 7 NO  
pH

## FRANK BOHANNONS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

**DENIED**

If denied, why?

NAME (PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

TABLE 1

**SIGNATURE**





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Main Contact Information

Name

Phone No.

Sett Dec 16 2019  
432-448-4239

## GENERATOR

NO.

220723

Operator No.

Operators Name

Address

City, State, Zip

Phone No.

Western MidStream

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Ross Draw 29 Fed com 001

Edley

30-015-32106

non-drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	X	Truck Washout (exempt waste)	111	W/O
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity, and Reactivity.

Non-Exempt Other

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

Classic

P.O. Box 1543

Stephenville, TX 76401

325-340-0745

Ronnie Bray

Ronnie Bray

325-340-0743

162

I hereby certify that the above named material(s) was/were picked up at the generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:50 PM OUT:

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No.

D1

Site Name/

Permit No.

Address

Red Bluff Facility/ STF-065

Phone No.

432-448-4239

5053 US Highway 285, Oria, TX 79770

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chloride

Conductivity

(mmhos/cm)

pH

Chemical Analysis (Mg/l)

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLs Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff DyerPhone No. 409-68-1690

## GENERATOR

NO. 230724

Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed Com H001  
 County Eddy  
 API No. 30-015-32106  
 Rig Name & No. Non Drilling  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (Type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Dmar Dominguez  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
 DATE

Dan  
 SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
 Address PO Box 15415  
Stephenville TX  
 Phone No. 325-340-0745

Driver's Name Joe Franklin  
 Print Name \_\_\_\_\_  
 Phone No. 325-340-0745  
 Truck No. 174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21  
 SHIPMENT DATE

[Signature]  
 DRIVER'S SIGNATURE

8-23-21  
 DELIVERY DATE

[Signature]  
 DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:59 PM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO  
 Conductivity (mmhos/cm) 7 pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

[Signature]  
 NAME (PRINT)

8/23/21  
 DATE

Recvr  
 TITLE

[Signature]  
 SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name JEFF Duer  
Phone No. 409-633-7835

## GENERATOR

NO. 477423Operator No. \_\_\_\_\_  
Operators Name Western Midstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Ross Drew 29 Fed Con #001  
County Felky  
API No. 30-015-32106  
Rig Name & No. non-drilling  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>End Dump</u>
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY (do not use for disposal)	_____	
E&P Contaminated Soil	<u>✓</u>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Omair Domineux  
(PRINT) AUTHORIZED AGENTS SIGNATURE8-23-21  
DATEJoe Franklin  
SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
Address P.O. Box 1545 Stephenville TX  
Phone No. 325-340-0745Driver's Name Joe Franklin  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 178

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 8-23-21 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 8-23-21 DRIVER'S SIGNATURE [Signature]

## TRUCK TIME STAMP

IN: 10:11 AM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DISite Name/ Permit No. Wishbone Facility/ RRC# STF-055  
Address 2499 FM 3033 Stanton, TX 79782Phone No. 432

NORM READINGS TAKEN? (Circle One) YES NO

Chloride \_\_\_\_\_

Chemical Analysis (Mg/l) \_\_\_\_\_

If YES, was reading > 50 micro roentgens? (circle one) YES NO

Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

ms/epk  
NAME (PRINT)8/23/21  
DATERCUR  
TITLEms  
SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Map Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 481998

Operator No. \_\_\_\_\_

Operator's Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Ross Draw 29 Fed com #001Eddy30-015-32106non Drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	<u>End dump</u>
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____	
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	
Tank Bottoms	_____	INTERNAL USE ONLY	_____	
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	_____	
Gas Plant Waste	_____			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back.

QUANTITY B - BARRELS 15 Y - YARDS \_\_\_\_\_ E - EACH \_\_\_\_\_

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's

Name Classic Crane And Transport LPAddress PO Box 1545Stephenville TX 76401Phone No. 325 340 0745

Driver's Name

Print Name

Phone No.

Truck No.

Paul GarciaPaul Garcia325 340 0745134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21

SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 1:00 pm OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Site Name/

Permit No. Wishbone Facility/ RRC# STF-055Address 2499 FM 3033 Stanton, TX 79782

Phone No.

432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Conductivity (mmhos/cm)

pH

## TANK BOTTOMS

Feet

Inches

1st Gauge	_____
2nd Gauge	_____
Received	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name

Phone No.

## GENERATOR

NO. 482343

Operator No.

Operators Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Ross Draw 29 Fed com #001

Caddy

30-015-32106

Non-drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS	Washout Water (Non-Injectable)		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings			Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds			Produced Water (Non-Injectable)		
Water Based Cuttings			Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids			INTERNAL USE ONLY		
Tank Bottoms			Truck Washout (exempt waste)		
E&P Contaminated Soil	✓				End Dump
Gas Plant Waste					

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity, and reactivity.

Non-Exempt Other

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

15

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Dante Dominguez

(PRINT) AUTHORIZED AGENT SIGNATURE

8-23-21

DATE

Dante Dominguez

SIGNATURE

## TRANSPORTER

Transporter's

Name

Address

Phone No.

Classic Crime and Transport LP

Do Box 1545

Stephenville TX 76401

325-340-0745

Driver's Name

Print Name

Phone No.

Truck No.

Paul Garcia

325 340 0745

134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21

SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21

DELIVERY DATE

DRIVER'S SIGNATURE

IN: 10:58 AM

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No.

Site Name/

Permit No.

Address

Wishbone Facility / RRC# 5TP-055

2499 FM 3033 Stanton, TX 79782

Phone No.

432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Conductivity (mmhos/cm)

pH

Chemical Analysis (Mg/l)

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLs Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Dante Dominguez 8/23/21

(NAME) (PRINT)

DATE

TITLE

D. Dominguez

SIGNATURE



# **Western Midstream**

**830 S. East Ave.  
Kermit, Texas 79745**

## **Site Remediation Report**

**Revised 4-20-22**

### **Western Midstream Redhills Phase 3 and Phase 2 Eddy County, New Mexico**

**Western Midstream Incident #s 16018/16275**

**Red Hills Phase 3 – OCD job# 39490 Release date: 7/10/2021**

**Red Hills Phase 2 – OCD job# 39488 Release date: 8/2/2021**



**9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180**



## TABLE OF CONTENTS

1. Summary
2. Photo documents
  - Beginning photos
  - Excavation photos
  - Final photos
3. Maps
  - Plat map
  - TWDB depth to groundwater
  - Distance to nearest city
4. Appendix 1
  - Analytical Report (Field Analysis)
  - Analytical Lab Summary
  - Lab reports
  - Chain of custodies
5. Appendix 2
  - R360 manifests





9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180

## **Soil Remediation Summary for Western Midstream Redhills Phase 3 and Phase 2**

### **1.0 INTRODUCTION**

A release of produced water occurred at the Western Midstream Redhills Phase 3 and Phase 2 in Eddy County, New Mexico. Western Midstream representative Jeff Doerr retained the services of Stingray Environmental and Construction to remediate this release.

### **1.1 Site Description**

The site is located in an active oil & gas field approximately 12.5 miles North of Orla, Texas in Eddy County, New Mexico. The release was caused from internal corrosion causing produced water to contact the surrounding soil. These 2 releases occurred on July 10, 2021 and August 2, 2021 and impacted approximately 2,880 square feet of pipeline right of way. There were no impacts to surface water impoundments or waterways due to this release. The Texas Water Development Board (TWDB) groundwater database shows depth to groundwater at the nearest well being 42.7 feet below ground surface (BGS).

### **1.2 Scope of Work**

Stingray Environmental and Construction's representatives in conjunction with Western Midstream's personnel and guidance from the New Mexico Administrative Code, Title 19 chapter 15, developed the following Scope of Work for this project:

1. Excavate the spill-impacted soil.
2. Following excavation procedures, collect confirmation soil samples of the excavated area for Chloride, TPH and BTEX lab analysis.



3. Haul contaminated material to R360 Red Bluff in waste hauler permitted trucks for disposal.
4. Subsequent to Chloride, TPH and BTEX analyses confirming targeted cleanup levels, backfill the excavated area with material brought in from a local mine and restore site to previous state.

### **1.3 Standard of Care**

Stingray Environmental and Construction's services were performed in a manner consistent with generally accepted practices of the profession undertaken during the same period. Stingray Environmental and Construction makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Stingray Environmental and Construction does not warrant the work of laboratories, regulatory agencies or other third parties supplying information or used in the preparation of the report.

### **1.4 Scope Limitations**

Findings, conclusions and recommendations resulting from these services were based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during these remediation activities. The data, interpretations, findings, and our recommendations were based solely upon information obtained at the time and within the scope of these services.

## **2.0 FIELD ACTIVITIES**

### **2.1 Excavation**

Stingray Environmental and Construction began excavation on August 17, 2021 to bring all impacted soils to the surface. The spill yielded approximately 200 cubic yards of spill-impacted material. Confirmation soil samples of the excavation bottom were collected for laboratory analysis of TPH using Method TX1005 and EPA Method 8015M, chloride analysis and BTEX.

### **2.2 Remediation and Restoration**

Approximately 200 cubic yards of spoil material was loaded in trucks with waste haulers permits and disposed of at the R360 Red Bluff facility. Approximately 200 cubic yards of fresh top soil from a local mine was used to backfill and dress out site. The site restoration was completed approximately August 27, 2021.

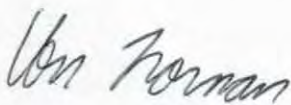


## 2.3 Soil Sampling

Confirmation soil samples were collected from the excavated areas bottom for chloride analysis, TPH analysis using Method TX1005 and EPA Method 8015M and BTEX by an independent laboratory. Soil samples collected for confirmation were placed in laboratory prepared glassware, sealed with custody tape and placed on ice in a secured cooler. The samples and completed chain of custody were relinquished to PBELab, Inc. in Midland, Texas for analysis. The executed chain-of-custody forms, laboratory results summary, data sheets and laboratory results are provided in the Appendix 1 of the report.

## 3.0 FINDINGS AND CONCLUSIONS

Based on the analytical results all contaminated soils were brought to the surface and properly disposed of at a state approved facility. Based on results of our field activities and laboratory analysis, the target standards for TPH, Chlorides and BTEX in soil has been obtained. Western Midstream LP requests "No Further Action Required at this Time" for this location as the requirements outlined in 19.15.29.12 have been fulfilled.



Von Norman  
Project Manager



# **Photo Documents**





**Beginning Photos Phase 3**





**Beginning Photos Phase 2**





Excavation Photos Phase 2 and Phase 3





Excavation Photos Pahe 3 and Phase 2





**Final Photos Phase 2 and Phase 3**



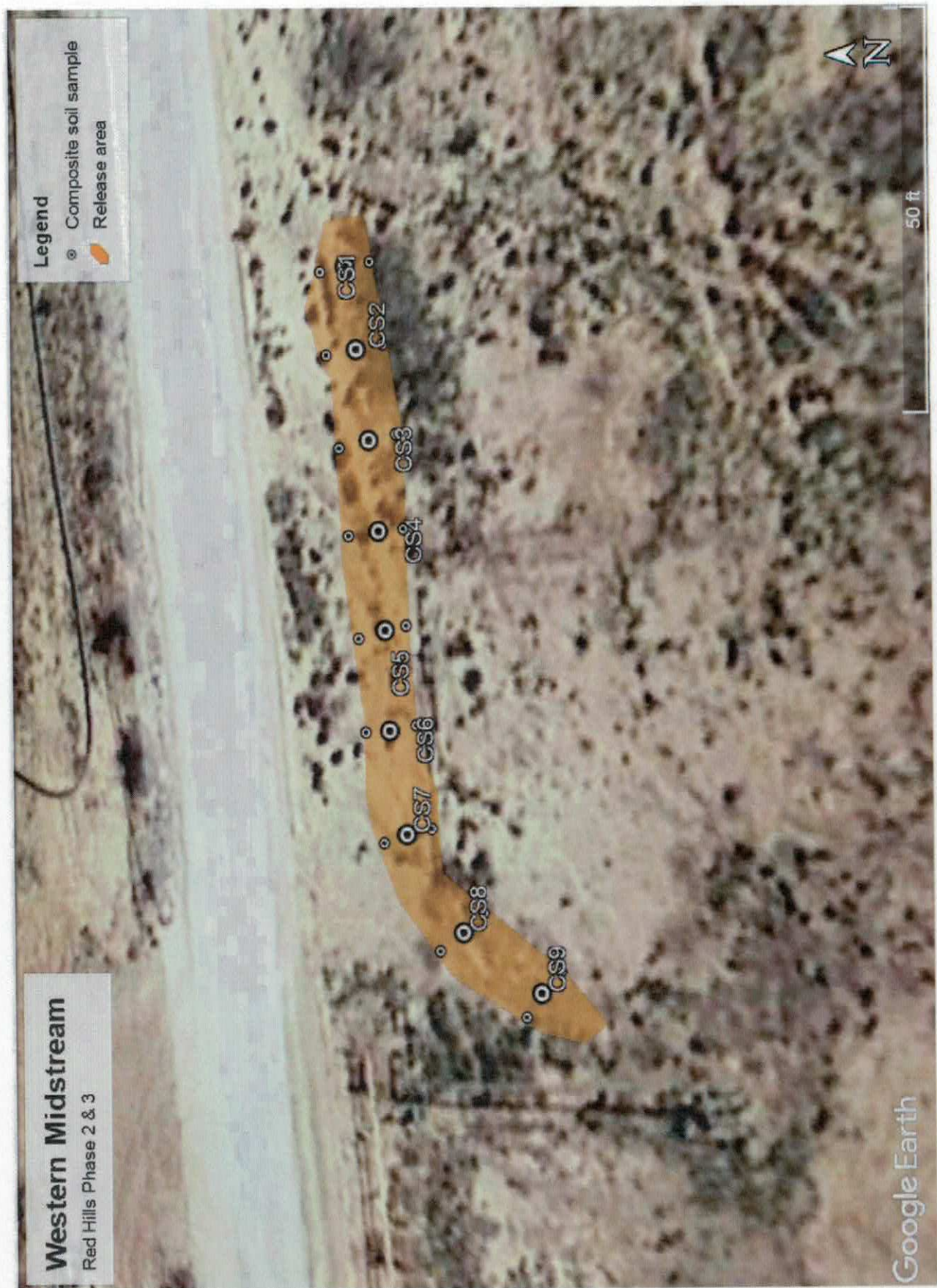


Final Photos Phase 3 and Phase 2



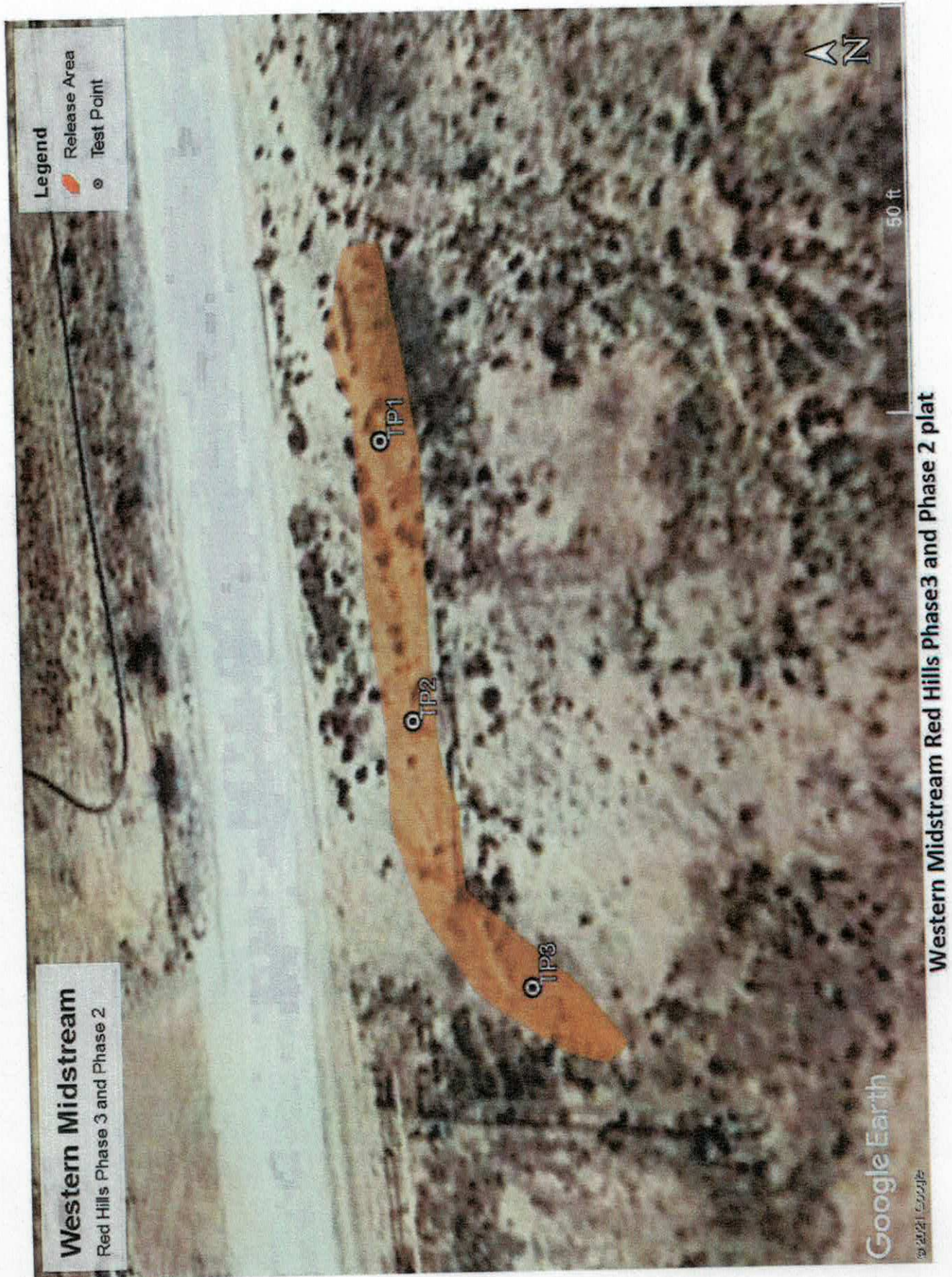
# Maps



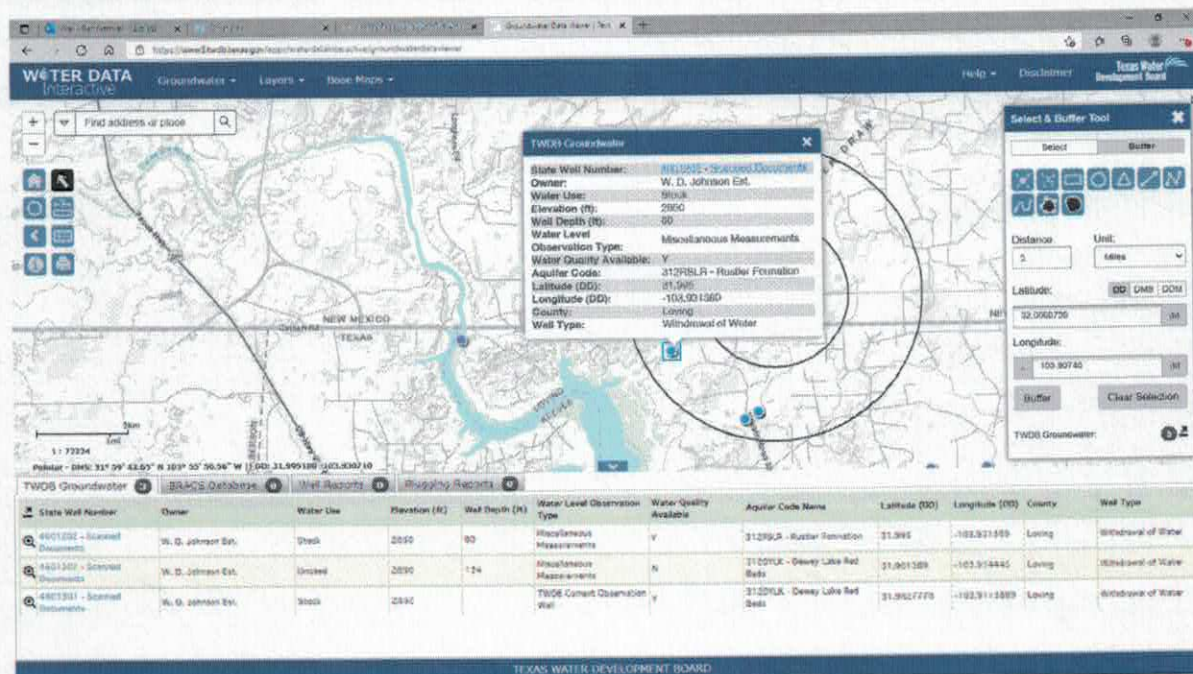
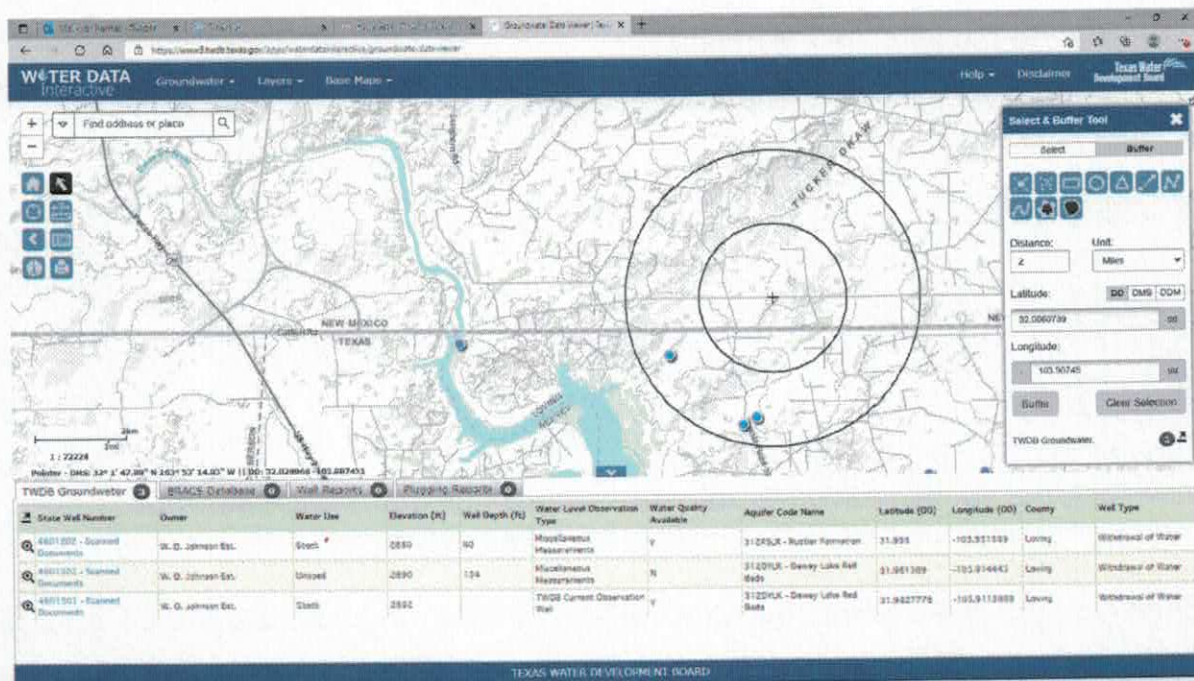


Western Midstream Red Hills Phase 2 and 3 plat map.









The nearest well with water data to the Western Midstream Red Hills Phase 3 and Phase 2 site is well number 4601202 and reflects a depth to ground water of 42.7 feet below ground surface (BGS). This information comes from the Texas Water Development Board Water Data Interactive web site.





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



## GWDB Reports and Downloads

## Well Basic Details

## Scanned Documents

State Well Number	4601202
County	Loving
River Basin	Rio Grande
Groundwater Management Area	3
Regional Water Planning Area	F - Region F
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	31.995
Latitude (degrees minutes seconds)	31° 59' 42" N
Longitude (decimal degrees)	-103.931389
Longitude (degrees minutes seconds)	103° 55' 53" W
Coordinate Source	+/- 1 Second
Aquifer Code	312RSLR - Rustler Formation
Aquifer	Rustler
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	2850
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	80
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	6/6/1966
Drilling Method	Cable Tool
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	W. D. Johnson Est.
Driller	Holder Water Well Drilling and Service
Other Data Available	Drillers Log; Specific Capacity
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	4/19/1995
Last Update Date	3/4/2020

**Remarks** Reported yield 3 GPM with 24 feet drawdown in 1966. Specific capacity 0.12 GPM/ft.

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	80

**Well Tests - No Data****Lithology**

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	4	surface sand and gravel
4	31	gyp rock
31	47	sandy clay
47	62	gravel and clay
62	78	sand and gravel (water)
78	80	anhydrite and gyp

**Annular Seal Range - No Data**





Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202



---

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

---



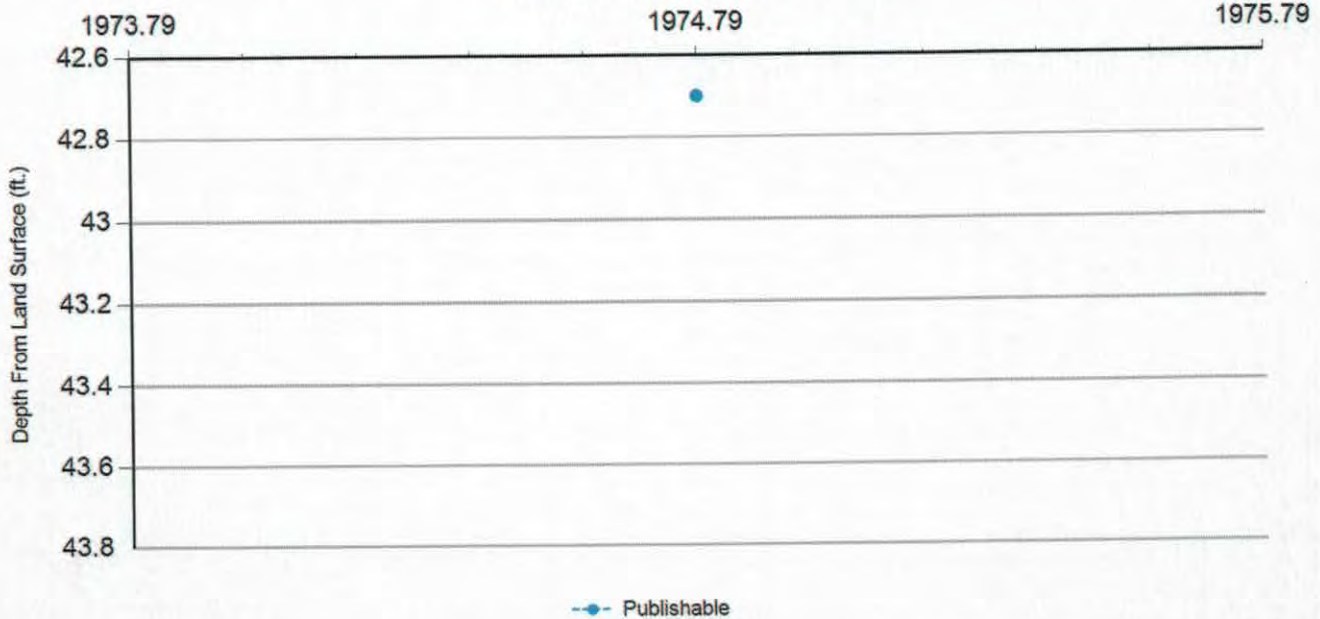


**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



### Water Level Measurements

Measurement Year (with decimal months)



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/17/1974		42.7		2807.3	1	Texas Water Development Board	Steel Tape		

### Code Descriptions

Status Code	Status Description
P	Publishable





**Texas Water Development Board (TWDB)**  
**Groundwater Database (GWDB)**  
**Well Information Report for State Well Number**  
**46-01-202**



### Water Quality Analysis

**Sample Date:** 4/19/1995    **Sample Time:** 1400    **Sample Number:** 1    **Collection Entity:** Texas Water Development Board

**Sampled Aquifer:** Rustler Formation

**Analyzed Lab:** Texas Department of Health

**Reliability:** Sampled using TWDB protocols

**Collection Remarks:** No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO <sub>3</sub>		227	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO <sub>3</sub> )		230	mg/L	
01503	ALPHA, DISSOLVED (PC/L)		20	PC/L	3
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	2	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		6	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
03503	BETA, DISSOLVED (PC/L)		22	PC/L	5
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO <sub>3</sub> )		280.68	mg/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.43	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	0.5	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		624	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO <sub>3</sub> )		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		349	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	8	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	8	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		21	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.44	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO <sub>3</sub> )		2356	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		46	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		130	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		192	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	50	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		6.84	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO <sub>3</sub> )		30.28	mg/L	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	<	0.01	mg/L	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	<	0.02	mg/L	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.7	mg/L	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		-65	MV	





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		6.85	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		12	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		12.8	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		37	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	6	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.36		
00932	SODIUM, CALCULATED, PERCENT		12	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		152	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		8770	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		1960	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		20.2	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	2	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		3504	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	8	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		274	ug/L	

\* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

**GWDB DISCLAIMER:** Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<http://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).



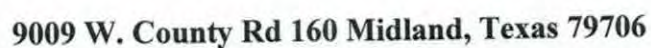


The Western Midstream Redhills Phase 3 and Phase 2 site is approximately 12.5 miles North of Orla, Texas.



# **Appendix 1**





**CLIENT:** Western Midstream

**SITE:** Redhills Phase 2 and 3

**ANALYST:** Von Norman **CONTACT #** 432-202-4180

[illegible]

**ANALYST NOTES:** TPH field analysis by EPA Method 418.1 (modified)





CLIENT: Western Midstream

SITE: Redhills Phase 3 and Phase 2

ANALYST: Von Norman CONTACT # 432-202-4180

[illegible]

0

**ANALYST NOTES:** TPH field analysis by EPA Method 418.1 (modified)

#### Chloride field analysis by silver nitrate method



## FIELD ANALYTICAL REPORT BACKGROUND

A portable TPH analyzer was used in accordance with EPA Method 418.1, to expedite the evaluation of delineation and dilution needs during the excavation phase of work required under SWR 3.91(d)(1). Once it was determined using the TPH portable analyzer that affected soils were brought to the surface and successfully reduced to <1% TPH, a representative soil sample of the excavation bottoms and composite sample of the spoil pile were taken and stabilized using ice and shipped to a certified laboratory for TPH analysis using Method TX 1005. Those sample results are included in this report in the following pages of Appendix 1.

The field portable TPH analyzer used in the field has the following manufacturer and model information:

Manufacturer: Wilks  
Instrument name: Infracal 2  
Model: TRANS-SP  
from Spectro Scientific.









11420 W. County Rd 33 Midland, Texas 79710

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**LAB ANALYTICAL SUMMARY****CLIENT:** Western Midstream**SITE:** Redhills Phase 3 and Phase 2**ANALYST:** Von Norman **CONTACT #** 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	TPH/ppm	SAMPLE NOTE
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03
			<b>Chlorides</b>	
TP1	8-20-21	6'	105	1H31003-01
TP2	8-20-21	2.5'	96	1H31003-02
TP3	8-20-21	6'	113	1H31003-03
			<b>BTEX</b>	
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03

**ANALYST NOTES:** Summary of PBEL lab report # 1H31003.



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report

**Prepared for:**

Von Norman  
Stingray Environmental & Construction  
9013 West County Road 160  
Midland, TEXAS 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2

Location:

Lab Order Number: 1H31003



**Current Certification**

Report Date: 09/02/21



Stingray Environmental & Construction	Project: Western Midstream Red Hills Phase 3 & 2
9013 West County Road 160	Project Number: Western Midstream Red Hills Phase 3 & 2
Midland TEXAS, 79706	Project Manager: Von Norman

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1	1H31003-01	Soil	08/20/21 13:00	08-31-2021 11:15
TP2	1H31003-02	Soil	08/20/21 13:30	08-31-2021 11:15
TP3	1H31003-03	Soil	08/20/21 14:00	08-31-2021 11:15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP1**  
**1H31003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Permian Basin Environmental Lab, L.P.</b>									
<b>BTEX by 8021B</b>									
Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.5 %		80-120		P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
<b>Organics by GC</b>									
C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: o-Terphenyl	119 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:03	[CALC]	
<b>General Chemistry Parameters by EPA / Standard Methods</b>									
Chloride	105	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 14:56	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP2**  
**1H31003-02 (Soil)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		114 %	80-120		P110102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Organics by GC									
C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: 1-Chlorooctane		109 %	70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: o-Terphenyl		119 %	70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:25	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	96.0	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:42	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP3**  
**1H31003-03 (Soil)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.1 %	80-120			P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	115 %	80-120			P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Organics by GC									
C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: 1-Chlorooctane	109 %	70-130			P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: o-Terphenyl	120 %	70-130			P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:47	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	113	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:57	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P110102 - \*\*\* DEFAULT PREP \*\*\***

Blank (P110102-BLK1)										
					Prepared & Analyzed: 09/01/21					
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	80-120			

LCS (P110102-BS1)										
					Prepared & Analyzed: 09/01/21					
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.0989	0.00100	"	0.100		98.9	70-130			
Ethylbenzene	0.0949	0.00100	"	0.100		94.9	70-130			
Xylene (p/m)	0.196	0.00200	"	0.200		98.0	70-130			
Xylene (o)	0.0803	0.00100	"	0.100		80.3	70-130			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5	80-120			

LCS Dup (P110102-BSD1)										
					Prepared & Analyzed: 09/01/21					
Benzene	0.0942	0.00100	mg/kg wet	0.100		94.2	70-130	6.01	20	
Toluene	0.0939	0.00100	"	0.100		93.9	70-130	5.23	20	
Ethylbenzene	0.0886	0.00100	"	0.100		88.6	70-130	6.96	20	
Xylene (p/m)	0.185	0.00200	"	0.200		92.3	70-130	5.96	20	
Xylene (o)	0.0801	0.00100	"	0.100		80.1	70-130	0.262	20	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

Matrix Spike (P110102-MS1)										
			Source: 1H31003-03		Prepared & Analyzed: 09/01/21					
Benzene	0.0709	0.00103	mg/kg dry	0.103	ND	68.8	80-120			QM-07
Toluene	0.0585	0.00103	"	0.103	ND	56.8	80-120			QM-07
Ethylbenzene	0.0487	0.00103	"	0.103	ND	47.2	80-120			QM-07
Xylene (p/m)	0.0979	0.00206	"	0.206	ND	47.5	80-120			QM-07
Xylene (o)	0.0430	0.00103	"	0.103	ND	41.8	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.128		"	0.124		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.124		92.8	80-120			

Permian Basin Environmental Lab, L.P.

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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P110102 - \*\*\* DEFAULT PREP \*\*\***

Matrix Spike Dup (P110102-MSD1)		Source: 1H31003-03		Prepared & Analyzed: 09/01/21						
Benzene	0.0835	0.00103	mg/kg dry	0.103	ND	81.0	80-120	16.3	20	
Toluene	0.0766	0.00103	"	0.103	ND	74.3	80-120	26.8	20	QM-07
Ethylbenzene	0.0694	0.00103	"	0.103	ND	67.3	80-120	35.0	20	QM-07
Xylene (p/m)	0.141	0.00206	"	0.206	ND	68.5	80-120	36.3	20	QM-07
Xylene (o)	0.0609	0.00103	"	0.103	ND	59.0	80-120	34.3	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.124		87.9	80-120			

Permian Basin Environmental Lab, L.P.

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9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3107 - TX 1005</b>										
<b>Blank (P1H3107-BLK1)</b>										
Prepared & Analyzed: 08/31/21										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
<b>LCS (P1H3107-BS1)</b>										
Prepared & Analyzed: 08/31/21										
C6-C12	924	25.0	mg/kg wet	1000		92.4	75-125			
>C12-C28	857	25.0	"	1000		85.7	75-125			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130			
<b>LCS Dup (P1H3107-BSD1)</b>										
Prepared & Analyzed: 08/31/21										
C6-C12	922	25.0	mg/kg wet	1000		92.2	75-125	0.216	20	
>C12-C28	840	25.0	"	1000		84.0	75-125	2.00	20	
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130			
<b>Calibration Check (P1H3107-CCV1)</b>										
Prepared & Analyzed: 08/31/21										
C6-C12	448	25.0	mg/kg wet	500		89.6	85-115			
>C12-C28	463	25.0	"	500		92.6	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130			
<b>Calibration Check (P1H3107-CCV2)</b>										
Prepared & Analyzed: 08/31/21										
C6-C12	442	25.0	mg/kg wet	500		88.5	85-115			
>C12-C28	460	25.0	"	500		92.0	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130			

Permian Basin Environmental Lab, L.P.

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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3107 - TX 1005</b>										
<b>Calibration Check (P1H3107-CCV3)</b>				Prepared & Analyzed: 08/31/21						
C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			
<b>Matrix Spike (P1H3107-MS1)</b>				Source: 1H31003-03 Prepared & Analyzed: 08/31/21						
C6-C12	875	25.8	mg/kg dry	1030	ND	84.9	75-125			
>C12-C28	800	25.8	"	1030	21.8	75.5	75-125			
Surrogate: 1-Chlorooctane	104		"	103		100	70-130			
Surrogate: o-Terphenyl	56.0		"	51.5		109	70-130			
<b>Matrix Spike Dup (P1H3107-MSD1)</b>				Source: 1H31003-03 Prepared & Analyzed: 08/31/21						
C6-C12	872	25.8	mg/kg dry	1030	ND	84.5	75-125	0.381	20	
>C12-C28	812	25.8	"	1030	21.8	76.7	75-125	1.52	20	
Surrogate: 1-Chlorooctane	104		"	103		101	70-130			
Surrogate: o-Terphenyl	56.3		"	51.5		109	70-130			



Stingray Environmental & Construction  
9013 West County Road 160  
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Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3108 - *** DEFAULT PREP ***</b>									
<b>Blank (P1H3108-BLK1)</b>				Prepared & Analyzed: 08/31/21					
Chloride	ND	1.00	mg/kg wet						
<b>LCS (P1H3108-BS1)</b>				Prepared & Analyzed: 08/31/21					
Chloride	402	1.00	mg/kg wet	400		101	90-110		
<b>LCS Dup (P1H3108-BSD1)</b>				Prepared & Analyzed: 08/31/21					
Chloride	406	1.00	mg/kg wet	400		101	90-110	0.888	20
<b>Calibration Blank (P1H3108-CCB1)</b>				Prepared & Analyzed: 08/31/21					
Chloride	-0.206		mg/kg wet						
<b>Calibration Blank (P1H3108-CCB2)</b>				Prepared & Analyzed: 08/31/21					
Chloride	0.00		mg/kg wet						
<b>Calibration Check (P1H3108-CCV1)</b>				Prepared & Analyzed: 08/31/21					
Chloride	19.6		mg/kg	20.0		98.0	90-110		
<b>Calibration Check (P1H3108-CCV2)</b>				Prepared & Analyzed: 08/31/21					
Chloride	19.9		mg/kg	20.0		99.5	90-110		
<b>Calibration Check (P1H3108-CCV3)</b>				Prepared & Analyzed: 08/31/21					
Chloride	19.3		mg/kg	20.0		96.4	90-110		
<b>Matrix Spike (P1H3108-MS1)</b>				<b>Source: 1H31003-01</b>		Prepared & Analyzed: 08/31/21			
Chloride	602	1.03	mg/kg dry	515	105	96.5	80-120		
<b>Matrix Spike (P1H3108-MS2)</b>				<b>Source: 1H27004-02</b>		Prepared & Analyzed: 08/31/21			
Chloride	3640	11.8	mg/kg dry	1180	2320	112	80-120		

Permian Basin Environmental Lab, L.P.

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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch PIH3108 - *** DEFAULT PREP ***</b>										
<b>Matrix Spike Dup (PIH3108-MSD1)</b>		<b>Source: 1H31003-01</b>		<b>Prepared &amp; Analyzed: 08/31/21</b>						
Chloride	597	1.03	mg/kg dry	515	105	95.4	80-120	0.949	20	
<b>Matrix Spike Dup (PIH3108-MSD2)</b>		<b>Source: 1H27004-02</b>		<b>Prepared &amp; Analyzed: 08/31/21</b>						
Chloride	3580	11.8	mg/kg dry	1180	2320	107	80-120	1.56	20	
<b>Batch P110104 - *** DEFAULT PREP ***</b>										
<b>Blank (P110104-BLK1)</b>		<b>Prepared &amp; Analyzed: 09/01/21</b>								
% Moisture	ND	0.1	%							



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

### Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 9/2/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

CH: W: Phone: 432-686-7235

Project Manager: Van Norman  
Company Name: Stringray Environmental  
Company Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Telephone No: \_\_\_\_\_  
Fax No: \_\_\_\_\_  
Sampler Signature: Van Norman  
e-mail: \_\_\_\_\_

Project Name: Western Midstream Red Hills  
Project #: 14  
Project Loc: \_\_\_\_\_  
PO #: \_\_\_\_\_  
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers										Matrix	Analyze For:		Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
								HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DV=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable		Specify Other	TPH: TX 1006		Anions (Cl, SO <sub>4</sub> , Alkalinity)	BTEX 8021 BTEX 8260	TCLP:	TOTAL:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1	TP1			8-20-21	1:00 PM	1	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

Special Instructions: \_\_\_\_\_

Relinquished by: Van Norman Date: 8-21-21 Time: 11:15 AM

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Laboratory Comments: \_\_\_\_\_

Sample Containers Intact? \_\_\_\_\_

VOCs Free of Headspace? \_\_\_\_\_

Labels on container(s) \_\_\_\_\_

Custody seals on container(s) \_\_\_\_\_

Custody seals on cooler(s) \_\_\_\_\_

Sample Hand Delivered by Sampler/Client Rep. ? \_\_\_\_\_

by Courier? \_\_\_\_\_ UPS \_\_\_\_\_ DHL \_\_\_\_\_ FedEx \_\_\_\_\_ Lone Star \_\_\_\_\_

Temperature Upon Receipt: \_\_\_\_\_ °C \_\_\_\_\_ °F

Received: \_\_\_\_\_

Adjusted: \_\_\_\_\_



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report

**Prepared for:**

Von Norman  
Stingray Environmental & Construction  
9013 West County Road 160  
Midland, TEXAS 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Location: New Mexico  
Lab Order Number: 2D13008



**Current Certification**

Report Date: 04/14/22



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS1	2D13008-01	Soil	04/12/22 10:00	04-13-2022 11:18
CS2	2D13008-02	Soil	04/12/22 10:15	04-13-2022 11:18
CS3	2D13008-03	Soil	04/12/22 10:40	04-13-2022 11:18
CS4	2D13008-04	Soil	04/12/22 11:05	04-13-2022 11:18
CS5	2D13008-05	Soil	04/12/22 11:30	04-13-2022 11:18
CS6	2D13008-06	Soil	04/12/22 12:15	04-13-2022 11:18
CS7	2D13008-07	Soil	04/12/22 13:30	04-13-2022 11:18
CS8	2D13008-08	Soil	04/12/22 14:10	04-13-2022 11:18
CS9	2D13008-09	Soil	04/12/22 14:45	04-13-2022 11:18



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS1**  
**2D13008-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>									
C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M	
Surrogate: 1-Chlorooctane	86.0 %		70-130		P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M	
Surrogate: o-Terphenyl	92.7 %		70-130		P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 22:28	calc	

Permian Basin Environmental Lab, L.P.

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Page 3 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS2**  
**2D13008-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
Surrogate: 1-Chlorooctane	86.5 %	70-130			P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
Surrogate: o-Terphenyl	91.8 %	70-130			P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 22:51	calc

Permian Basin Environmental Lab, L.P.

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Page 4 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS3

## 2D13008-03 (Soil)

Analyte	Reporting Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M	
Surrogate: 1-Chlorooctane	87.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M	
Surrogate: o-Terphenyl	95.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 23:13	calc	

Permian Basin Environmental Lab, L.P.

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Page 5 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS4

## 2D13008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M	
Surrogate: 1-Chlorooctane	81.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M	
Surrogate: o-Terphenyl	88.7 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 23:36	calc	

Permian Basin Environmental Lab, L.P.

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Page 6 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS5**  
**2D13008-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Surrogate: 1-Chlorooctane	87.7 %	70-130			P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Surrogate: o-Terphenyl	96.1 %	70-130			P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 00:43	calc

Permian Basin Environmental Lab, L.P.

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Page 7 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS6

## 2D13008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M	
Surrogate: 1-Chlorooctane	92.4 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M	
Surrogate: o-Terphenyl	92.3 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:05	calc	

Permian Basin Environmental Lab, L.P.

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Page 8 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS7

## 2D13008-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M	
Surrogate: 1-Chlorooctane	79.2 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M	
Surrogate: o-Terphenyl	77.7 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:28	calc	

Permian Basin Environmental Lab, L.P.

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Page 9 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS8

## 2D13008-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M	
Surrogate: 1-Chlorooctane	79.0 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M	
Surrogate: o-Terphenyl	79.6 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:51	calc	

Permian Basin Environmental Lab, L.P.

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Page 10 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

## CS9

## 2D13008-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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## Permian Basin Environmental Lab, L.P.

## General Chemistry Parameters by EPA / Standard Methods

% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216	
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## Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
Surrogate: 1-Chlorooctane	82.1 %	70-130			P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
Surrogate: o-Terphenyl	81.9 %	70-130			P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 02:14	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 11 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch P2D1309 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P2D1309-BLK1)**

Prepared & Analyzed: 04/13/22

% Moisture	ND	0.1	%							
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**Duplicate (P2D1309-DUP1)**

Source: 2D13008-04

Prepared & Analyzed: 04/13/22

% Moisture	4.0	0.1	%		3.0			28.6	20	R3
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 12 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P2D1304 - *** DEFAULT PREP ***</b>										
<b>Blank (P2D1304-BLK1)</b>										
					Prepared & Analyzed: 04/13/22					
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.9		"	100		98.9	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			
<b>LCS (P2D1304-BS1)</b>										
					Prepared & Analyzed: 04/13/22					
C6-C12	819	25.0	mg/kg wet	1000		81.9	75-125			
>C12-C28	946	25.0	"	1000		94.6	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			
<b>LCS Dup (P2D1304-BSD1)</b>										
					Prepared & Analyzed: 04/13/22					
C6-C12	825	25.0	mg/kg wet	1000		82.5	75-125	0.821	20	
>C12-C28	976	25.0	"	1000		97.6	75-125	3.08	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	62.7		"	50.0		125	70-130			
<b>Calibration Check (P2D1304-CCV1)</b>										
					Prepared & Analyzed: 04/13/22					
C6-C12	474	25.0	mg/kg wet	500		94.8	85-115			
>C12-C28	500	25.0	"	500		99.9	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			
<b>Calibration Check (P2D1304-CCV2)</b>										
					Prepared: 04/13/22 Analyzed: 04/14/22					
C6-C12	477	25.0	mg/kg wet	500		95.3	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 13 of 15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

### Notes and Definitions

ROI Received on Ice  
R3 The RPD exceeded the acceptance limit due to sample matrix effects.  
BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date: 4/14/2022

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 14 of 15





## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

Phone: 432-886-7235

Page 15 of 15

Project Manager:

Von Norman

Company Name

Stingray Environmental and Construction

Company Address:

9009 W CR160

City/State/Zip:

Midland, Texas 79706

Telephone No:

432-202-4180

Fax No:

Sampler Signature:

e-mail:

vnorman@stingrayec.com

Project Loc:

PO #:

Report Format:

☐ Standard

☐ TRRP

☐ NPDES

Project Name: Western Midstream Redhills Phase 2 and 3

Project #: Western Midstream Redhills Phase 2 and 3

☐ Analyze For: TPH EPA SW-646 or Method 8015M  
☐ C H L O P S  
☐ BTEX 80218/5030 or BTEX 8260  
☐ Anions (Cl, SO<sub>4</sub>, Alkalinity)  
☐ TPH: TX 1006 TX 1006  
☐ NP-Non-Petroleum Specify Other  
☐ GW-Groundwater S-Solvent  
☐ DW-Drinking Water SL-Sludge  
☐ Other (Specify)  
☐ None  
☐ Na<sub>2</sub>SO<sub>3</sub>  
☐ NaOH  
☐ H<sub>2</sub>SO<sub>4</sub>  
☐ HCl  
☐ HNO<sub>3</sub>  
☐ Ice  
☐ Field Filtered  
☐ Total # of Containers  
☐ Matrix

(lab use only)

ORDER #: 2013008

LAB # (lab use only)

FIELD CODE

CS1

CS2

CS3

CS4

CS5

CS6

CS7

CS8

CS9

Date Sampled

Time Sampled

Field Filtered

Total # of Containers

Matrix

DW-Drinking Water SL-Sludge

GW-Groundwater S-Solvent

NP-Non-Petroleum Specify Other

TPH: TX 1006 TX 1006

Anions (Cl, SO<sub>4</sub>, Alkalinity)

BTEX 80218/5030 or BTEX 8260

C H L O P S

TPH EPA SW-646 or Method 8015M

Standard TAT

Special Instructions:

Relinquished by:

Date

Time

Received by:

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# **Appendix 2**





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Ornel Dominguez  
Phone No. 432-634-3620

## GENERATOR

NO. 200871Operator No. \_\_\_\_\_  
Operator's Name Western Mktstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. ROSS PRAN 29 Fcd Com #1  
County EDDY  
API No. 30-015-32106  
Rig Name & No. NW DRILLING  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_  
Oil Based Cuttings \_\_\_\_\_  
Water Based Muds \_\_\_\_\_  
Water Based Cuttings \_\_\_\_\_  
Produced Formation Solids \_\_\_\_\_  
Tank Bottoms \_\_\_\_\_  
E&P Contaminated Soil ☒ \_\_\_\_\_  
Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable) \_\_\_\_\_  
Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_  
Produced Water (Non-Injectable) \_\_\_\_\_  
Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_  
INTERNAL USE ONLY  
Truck Washout (exempt waste) \_\_\_\_\_

## OTHER EXEMPT WASTES (type and generation process of the waste)

EW DumpWASTE GENERATION PROCESS: ☒ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TELP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from 'Non-Exempt Waste List' on back

QUANTITY B - BARRELS Y - YARDS 15 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)Ornel Dominguez  
(PRINTER) AUTHORIZED AGENTS SIGNATURE08-20  
DATEOrnel Dominguez  
SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
Address PO Box 1545  
Stephenville TX 76401  
Phone No. 325-340-0745Driver's Name John R  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20  
SHIPMENT DATEJohn R  
DRIVER'S SIGNATURE08-20-21  
DELIVERY DATEJohn R  
DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:21 pm OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DISite Name/ Permit No. Red Bluff Facility/ STF-065  
Address 5053 US Highway 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l) \_\_\_\_\_  
Chloride \_\_\_\_\_Conductivity (mmhos/cm) \_\_\_\_\_  
pH \_\_\_\_\_

## TANK BOTTOMS

	Feet	Inches	BS&W/BBLs Received	Free Water	BS&W (%)
1st Gauge					
2nd Gauge					
Received					

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Doerr

Phone No. \_\_\_\_\_

## GENERATOR

NO. 237675

Operator No. \_\_\_\_\_  
 Operators Name WESTERN MIDSTREAM  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. \_\_\_\_\_  
 County EOBY  
 API No. 30-015-32106  
 Rig Name & No. 4601202  
 AFE/PO No. \_\_\_\_\_

Ross DRW 29 FED Comm #001  
EOBY  
30-015-32106  
4601202

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY (Non-Injectable)	_____		
E&P Contaminated Soil	<u>✓</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), irritability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS Y - YARDS 115 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
 Address P.O. Box 1545  
Stephenville, TX 76401  
 Phone No. 325-3441-0745

Driver's Name John D

Print Name

Phone No.

Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 2:29 PM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle one) YES NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 220676

Operator No. \_\_\_\_\_  
 Operators Name WESTERN MIDSTREAM  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross DRAW 29 Fedl Con. #001  
 County EL DHO  
 API No. 30-015-32106  
 Rig Name & No. \_\_\_\_\_  
 AFE/PO No. 4601202

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<input checked="" type="checkbox"/>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 7 YARDS 15 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Donna Dyer  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

Donna Dyer  
 SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
 Address P.O. Box 1545  
Stephenville, TX 76781  
 Phone No. 325-340-0745

Driver's Name John R  
 Print Name \_\_\_\_\_  
 Phone No. \_\_\_\_\_  
 Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

08-20

SHIPMENT DATE

John R  
 DRIVER'S SIGNATURE

08-20

DELIVERY DATE

John R  
 DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 1:29 pm OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239NORM READINGS TAKEN? (Circle One) (YES) NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Conductivity (mmhos/cm) 7 pH

## TANK BOTTOMS

1st Gauge \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

BS&W/BBLS Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE



(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Jeff DoerPhone No. 432-638-7693

## GENERATOR

NO.

230670

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well

Name & No. Ross Draw 29 Fed Com #001County EddyAPI No. 30-015-321D6Rig Name & No. NON-DRILLING

AFE/PO No. \_\_\_\_\_

EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<u>END DUMP</u>
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)(PRINT) AUTHORIZED AGENTS SIGNATURE Don D...DATE 08-20-2021SIGNATURE Don D...

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LPAddress P.O. Box 1545Stephenville, TX 76401Phone No. 325 340-0745Driver's Name Joey GrayPrint Name Joey GrayPhone No. 205 361-5000Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 08-20-2021DRIVER'S SIGNATURE Joey GrayDELIVERY DATE 08-20-2021DRIVER'S SIGNATURE Joey Gray

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. \_\_\_\_\_

Site Name/ Red Bluff Facility/ STF-065

Permit No. \_\_\_\_\_

Address 5053 US Highway 285, Orla, TX 79770Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Conductivity

(mmhos/cm)

pH

Chemical Analysis (Mg/l)

## TANK BOTTOMS

Feet

Inches

1st Gauge	
2nd Gauge	
Received	

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE



## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Jeff DoerPhone No. 432-638-7693

## GENERATOR

NO. 230671

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well Name & No. Ross Draw 29 Fed Com #001

County Eddy

API No. 30-015-32106

Rig Name & No. non-drilling

AFE/PO No. \_\_\_\_\_

EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<b>END DUMP</b>
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Ornel Dominguez  
(PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021  
DATE

Ornel Dominguez  
SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LP

Address PO BOX 1545  
Stephenville, TX 76401

Phone No. 325 340-0745

Driver's Name Joey Gray

Print Name Joey Gray

Phone No. 205 361-5020

Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20-2021 SHIPMENT DATE Joey Gray DRIVER'S SIGNATURE

08-20-2021 DELIVERY DATE Joey Gray DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ Permit No. Red Bluff Facility/ STF-065

Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Chloride

Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

Feet

Inches

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&W/BBLS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Donna DomulauPhone No. 409-554-3020

## GENERATOR

NO. 482781

Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. \_\_\_\_\_  
 County Eddy  
 API No. 30-075-32106  
 Rig Name & No. NON Drilling  
 AFE/PO No. \_\_\_\_\_

Ross Draw 29 Fed/Com #001  
Eddy  
30-075-32106  
NON Drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_  
 Oil Based Cuttings \_\_\_\_\_  
 Water Based Muds \_\_\_\_\_  
 Water Based Cuttings \_\_\_\_\_  
 Produced Formation Solids \_\_\_\_\_  
 Tank Bottoms \_\_\_\_\_  
 E&P Contaminated Soil ☒  
 Gas Plant Waste \_\_\_\_\_

NON-INJECTABLE WATERS  
 Washout Water (Non-Injectable) \_\_\_\_\_  
 Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_  
 Produced Water (Non-Injectable) \_\_\_\_\_  
 Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_  
 INTERNAL USE ONLY  
 Truck Washout (exempt waste) \_\_\_\_\_

## OTHER EXEMPT WASTES (type and generation process of the waste)

END DUMP

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Donna Domulau  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021  
 DATE

Donna Domulau  
 SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LP  
 Address P.O. Box 1545  
Stephenville, TX 76401  
 Phone No. 325 340-0745

Driver's Name Joey Gray  
 Print Name Joey Gray  
 Phone No. 205 361-5020  
 Truck No. 14152

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20-2021 Joey Gray  
 SHIPMENT DATE DRIVER'S SIGNATURE

08-20-2021 Joey Gray  
 DELIVERY DATE DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12/17 OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DI

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
 Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO  
 Conductivity (mmhos/cm) 7 pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

RCUR

SIGNATURE

NAME (PRINT)

DATE

TITLE





**TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST**  
(PLEASE-PRINT) \*REQUIRED INFORMATION\*

Company-Mail Contact Information  
Name Jeff Dorn  
Phone No. 432-638-7693

**GENERATOR**NO. **485128**

Operator No. 8  
Operators Name Western Midstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Ross Draw 29 Fed Com Oil  
County Eddy  
API No. 30-05-32106  
Rig Name & No. non-drilling  
AFE/PO No. \_\_\_\_\_

**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	<b>INTERNAL USE ONLY</b>	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		<b>END DUMPS</b>

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**\*NON-EXEMPT E&P Waste/Service Identification and Amount\***

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCAP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Dmar Daniquel  
(PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
DATE

Don Dorn  
SIGNATURE

**TRANSPORTER**

Transporter's Name Classic  
Address P.O. Box 1545  
St. Phonsville TX 76401  
Phone No. 325-340-0745

Driver's Name Ronnie Bray  
Print Name Ronnie Bray  
Phone No. 325-340-0745  
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21 Ronnie Bray  
SHIPMENT DATE DRIVER'S SIGNATURE

8-23-21 Ronnie Bray  
DELIVERY DATE DRIVER'S SIGNATURE

**TRUCK TIME STAMP**

IN: 10:09 AM OUT: \_\_\_\_\_

**DISPOSAL FACILITY****RECEIVING AREA**

Name/No. D1

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One) YES NO  
Chemical Analysis (Mg/l) \_\_\_\_\_

If YES, was reading > 50 micro roentgens? (circle one) YES NO  
Conductivity (mmhos/cm) 7 pH

**TANK BOTTOMS**

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Don Dorn  
NAME (PRINT)

8/23/21  
DATE

RCVR  
TITLE

ms  
SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Mail Contact Information

Name Self Decl  
Phone No. 432-638-7493

## GENERATOR

NO. 220723Operator No. 1  
Operators Name Western midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Ross Draw 29 Fedcom 001  
Eddy  
30-015-32106  
non-drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>X</u>	Truck Washout (exempt waste)	<u>thr</u>		<u>w/o</u>
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY 15 B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's

Name

Address

Phone No.

Driver's Name

Print Name

Phone No.

Truck No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIP/ENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:50 PM OUT:

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/

Permit No.

Address

Red Bluff Facility/ STF-065

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Conductivity (mmhos/cm)

pH

## TANK BOTTOMS

Feet

Inches

1st Gauge  
2nd Gauge  
Received

BS&amp;W/BBLs Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Sett DyerPhone No. 432-638-1693

## GENERATOR

NO. 230724

Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. \_\_\_\_\_  
 County Eddy  
 API No. 30-015-38106  
 Rig Name & No. Non Drilling  
 AFE/PO No. \_\_\_\_\_

Ross Draw 29 Fed Com #001  
Eddy  
30-015-38106  
Non Drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_  
 Oil Based Cuttings \_\_\_\_\_  
 Water Based Muds \_\_\_\_\_  
 Water Based Cuttings \_\_\_\_\_  
 Produced Formation Solids \_\_\_\_\_  
 Tank Bottoms \_\_\_\_\_  
 E&P Contaminated Soil ✓  
 Gas Plant Waste \_\_\_\_\_

NON-INJECTABLE WATERS  
 Washout Water (Non-Injectable) \_\_\_\_\_  
 Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_  
 Produced Water (Non-Injectable) \_\_\_\_\_  
 Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

INTERNAL USE ONLY  
 Truck Washout (exempt waste) W/O

OTHER EXEMPT WASTES (type and generation process of the waste)

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Omair Dominguez  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
 DATE

Dyer  
 SIGNATURE

## TRANSPORTER

Transporter's Name CLARK  
 Address PO Box 15415  
Stephenville TX  
 Phone No. 325-340-0745

Driver's Name

Joe Franklin

Print Name

Phone No.

325-340-0745

Truck No.

179

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21  
 SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21  
 DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: 12:59 PM OUT: \_\_\_\_\_Name/No. PI

Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Conductivity (mmhos/cm)

7

pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

Feet

Inches

BS&W/BBLs Received \_\_\_\_\_  
 Free Water \_\_\_\_\_  
 Total Received \_\_\_\_\_

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name JEFF Dyer  
Phone No. 409-633-1045

## GENERATOR

NO. 477423Operator No. \_\_\_\_\_  
Operators Name Western Midstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Ross 29 Fed Can #001  
County Eddy  
API No. 32-015-32106  
Rig Name & No. non-drilling  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	<b>NON-INJECTABLE WATERS</b> Washout Water (Non-Injectable) _____ Completion Fluid/Flow back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ <b>INTERNAL USE ONLY</b> Truck Washout (exempt waste) _____ <b>OTHER EXEMPT WASTES</b> (type and generation process of this waste) <u>End Dump</u>
Oil Based Cuttings	_____	
Water Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	_____	
Gas Plant Waste	_____	
WASTE GENERATION PROCESS: <input type="checkbox"/> DRILLING <input type="checkbox"/> COMPLETION <input type="checkbox"/> PRODUCTION <input type="checkbox"/> GATHERING LINES		

NON-EXEMPT E&P Waste/Service Identification and Amount		
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.		
Non-Exempt Other _____ *please select from Non-Exempt Waste List on back		
QUANTITY	B - BARRELS	Y - YARDS
		<u>15</u>
		E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Omair Dominguez  
(PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
DATE

Joe Franke  
SIGNATURE

## TRANSPORTER

Transporter's Name Classic  
Address P.O. Box 1545 Stephenville TX  
Phone No. 325-340-0745

Driver's Name Joe Franke  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. 178

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21  
SHIPMENT DATE

8-23-21  
DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: <u>10:11 AM</u> OUT: _____		Name/No. <u>DI</u>

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle one) YES NO  
Chloride \_\_\_\_\_  
Chemical Analysis (Mg/l) \_\_\_\_\_

If YES, was reading > 50 micro roentgens? (circle one) YES NO  
Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_ Feet \_\_\_\_\_ Inches \_\_\_\_\_  
2nd Gauge \_\_\_\_\_  
Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

ms/epk  
NAME (PRINT)

8/23/21  
DATE

RCUR  
TITLE

ms  
SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Map Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 481998

Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. \_\_\_\_\_  
 County Eddy  
 API No. 30-015-32106  
 Rig Name & No. Non Drilling  
 AFE/PO No. \_\_\_\_\_

Ross Draw 29 Fed Com #001  
Eddy  
30-015-32106  
Non Drilling

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_  
 Oil Based Cuttings \_\_\_\_\_  
 Water Based Muds \_\_\_\_\_  
 Water Based Cuttings \_\_\_\_\_  
 Produced Formation Solids \_\_\_\_\_  
 Tank Bottoms \_\_\_\_\_  
 E&P Contaminated Soil ☒ \_\_\_\_\_  
 Gas Plant Waste \_\_\_\_\_

NON-INJECTABLE WATERS  
 Washout Water (Non-Injectable) \_\_\_\_\_  
 Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_  
 Produced Water (Non-Injectable) \_\_\_\_\_  
 Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

INTERNAL USE ONLY  
 Truck Washout (exempt waste) \_\_\_\_\_

OTHER EXEMPT WASTES (type and generation process of the waste)  
End dump

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY 15 B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport LP  
 Address PO Box 1545  
Stephenville TX 76401  
 Phone No. 325 340 0745

Driver's Name Paul Garcia  
 Print Name Paul Garcia  
 Phone No. 325 340 0745  
 Truck No. 134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21

SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 1:00 pm OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
 Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One)

☒ YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Conductivity

(mmhos/cm)

pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

Feet

Inches

1st Gauge \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

Feet	Inches

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

## GENERATOR

NO. 482343

Operator No. \_\_\_\_\_

Operator's Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Ross Draw 29 Fed com #001County EddyAPI No. 30-015-32106Rig Name & No. Non-drilling

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_

Oil Based Cuttings \_\_\_\_\_

Water Based Muds \_\_\_\_\_

Water Based Cuttings \_\_\_\_\_

Produced Formation Solids \_\_\_\_\_

Tank Bottoms \_\_\_\_\_

E&P Contaminated Soil ☒

Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable) \_\_\_\_\_

Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_

Produced Water (Non-Injectable) \_\_\_\_\_

Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_

INTERNAL USE ONLY \_\_\_\_\_

Truck Washout (exempt waste) \_\_\_\_\_

## OTHER EXEMPT WASTES (type and generation process of the waste)

End Dump

WASTE GENERATION PROCESS:

☐

DRILLING

☐

COMPLETION

☐

PRODUCTION

☐

GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity, and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

15

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Donna Dominguez  
(PRINT) AUTHORIZED AGENT SIGNATURE

8-23-21  
DATE

Donna Dominguez  
SIGNATURE

## TRANSPORTER

Transporter's

Name Classic Cline and Transport LPAddress PO Box 1545Stephenville TX 76401Phone No. 325-340-0745

Driver's Name

Paul Garcia

Print Name

Phone No.

325 340 0745

Truck No.

134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21  
SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21  
DELIVERY DATE

DRIVER'S SIGNATURE

## DISPOSAL FACILITY

## RECEIVING AREA

IN: 10:08 AM  
TRUCK TIME STAMP

Name/No. \_\_\_\_\_

Site Name/

Permit No. Wishbone Facility/RRCA-5TP-055Address 2499 FM 3033 Stanton, TX 79782

Phone No.

432

NORM READINGS TAKEN? (Circle one)

YES

NO

IF YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Conductivity (mmhos/cm)

pH

## TANK BOTTOMS

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

Feet

Inches

BS&W/BBLs Received \_\_\_\_\_

Free Water \_\_\_\_\_

Total Received \_\_\_\_\_

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Wishbone Facility 8/23/21  
NAME (PRINT) DATE

Paul Garcia  
TITLE

Wishbone Facility  
SIGNATURE



# **Western Midstream**

**830 S. East Ave.  
Kermit, Texas 79745**

## **Site Remediation Report** **Revised 8-11-22**

### **Western Midstream Redhills Phase 3 and Phase 2 Eddy County, New Mexico**

**Western Midstream Incident #s 16018/16275**

**Red Hills Phase 3 – OCD job# 39490 Release date: 7/10/2021**

**Red Hills Phase 2 – OCD job# 39488 Release date: 8/2/2021**



**9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180**



## TABLE OF CONTENTS

- 1. Summary**
- 2. Photo documents**
  - Beginning photos
  - Excavation photos
  - Final photos
- 3. Maps**
  - Plat map
  - TWDB depth to groundwater
  - Distance to nearest city
- 4. Appendix 1**
  - Analytical Report (Field Analysis)
  - Analytical Lab Summary
  - Lab reports
  - Chain of custodies
- 5. Appendix 2**
  - R360 manifests





9009 W. County Rd 160 Midland, Texas 79706  
P.O. Box 51983 Midland, Texas 79710  
432-202-4180

## **Soil Remediation Summary for Western Midstream Redhills Phase 3 and Phase 2**

### **1.0 INTRODUCTION**

A release of produced water occurred at the Western Midstream Redhills Phase 3 and Phase 2 in Eddy County, New Mexico. Western Midstream representative Jeff Doerr retained the services of Stingray Environmental and Construction to remediate this release.

#### **1.1 Site Description**

The site is located in an active oil & gas field approximately 12.5 miles North of Orla, Texas in Eddy County, New Mexico. The release was caused from internal corrosion causing produced water to contact the surrounding soil. These 2 releases occurred on July 10, 2021 and August 2, 2021 and impacted approximately 2,880 square feet of pipeline right of way. There were no impacts to surface water impoundments or waterways due to this release. The Texas Water Development Board (TWDB) groundwater database shows depth to groundwater at the nearest well being 42.7 feet below ground surface (BGS).

#### **1.2 Scope of Work**

Stingray Environmental and Construction's representatives in conjunction with Western Midstream's personnel and guidance from the New Mexico Administrative Code, Title 19 chapter 15, developed the following Scope of Work for this project:

1. Excavate the spill-impacted soil.
2. Following excavation procedures, collect confirmation soil samples of the excavated area for Chloride, TPH and BTEX lab analysis.



3. Haul contaminated material to R360 Red Bluff in waste hauler permitted trucks for disposal.
4. Subsequent to Chloride, TPH and BTEX analyses confirming targeted cleanup levels, backfill the excavated area with material brought in from a local mine and restore site to previous state.

### **1.3 Standard of Care**

Stingray Environmental and Construction's services were performed in a manner consistent with generally accepted practices of the profession undertaken during the same period. Stingray Environmental and Construction makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Stingray Environmental and Construction does not warrant the work of laboratories, regulatory agencies or other third parties supplying information or used in the preparation of the report.

### **1.4 Scope Limitations**

Findings, conclusions and recommendations resulting from these services were based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during these remediation activities. The data, interpretations, findings, and our recommendations were based solely upon information obtained at the time and within the scope of these services.

## **2.0 FIELD ACTIVITIES**

### **2.1 Excavation**

Stingray Environmental and Construction began excavation on August 17, 2021 to bring all impacted soils to the surface. The spill yielded approximately 200 cubic yards of spill-impacted material. Confirmation soil samples of the excavation bottom were collected for laboratory analysis of TPH using Method TX1005 and EPA Method 8015M, chloride analysis and BTEX.

### **2.2 Remediation and Restoration**

Approximately 200 cubic yards of spoil material was loaded in trucks with waste haulers permits and disposed of at the R360 Red Bluff facility. Approximately 200 cubic yards of fresh top soil from a local mine was used to backfill and dress out site. The site restoration was completed approximately August 27, 2021.




### 2.3 Soil Sampling

Confirmation soil samples were collected from the excavated areas bottom for chloride analysis, TPH analysis using Method TX1005 and EPA Method 8015M and BTEX by an independent laboratory. Soil samples collected for confirmation were placed in laboratory prepared glassware, sealed with custody tape and placed on ice in a secured cooler. The samples and completed chain of custody were relinquished to PBELab, Inc. in Midland, Texas for analysis. The executed chain-of-custody forms, laboratory results summary, data sheets and laboratory results are provided in the Appendix 1 of the report.

### 3.0 FINDINGS AND CONCLUSIONS

Based on the analytical results all contaminated soils were brought to the surface and properly disposed of at a state approved facility. Based on results of our field activities and laboratory analysis, the target standards for TPH, Chlorides and BTEX in soil has been obtained. Western Midstream LP requests "No Further Action Required at this Time" for this location as the requirements outlined in 19.15.29.12 have been fulfilled.



Von Norman  
Project Manager



# **Photo Documents**





**Beginning Photos Phase 3**





**Beginning Photos Phase 2**





Excavation Photos Phase 2 and Phase 3





Excavation Photos Pahe 3 and Phase 2





**Final Photos Phase 2 and Phase 3**



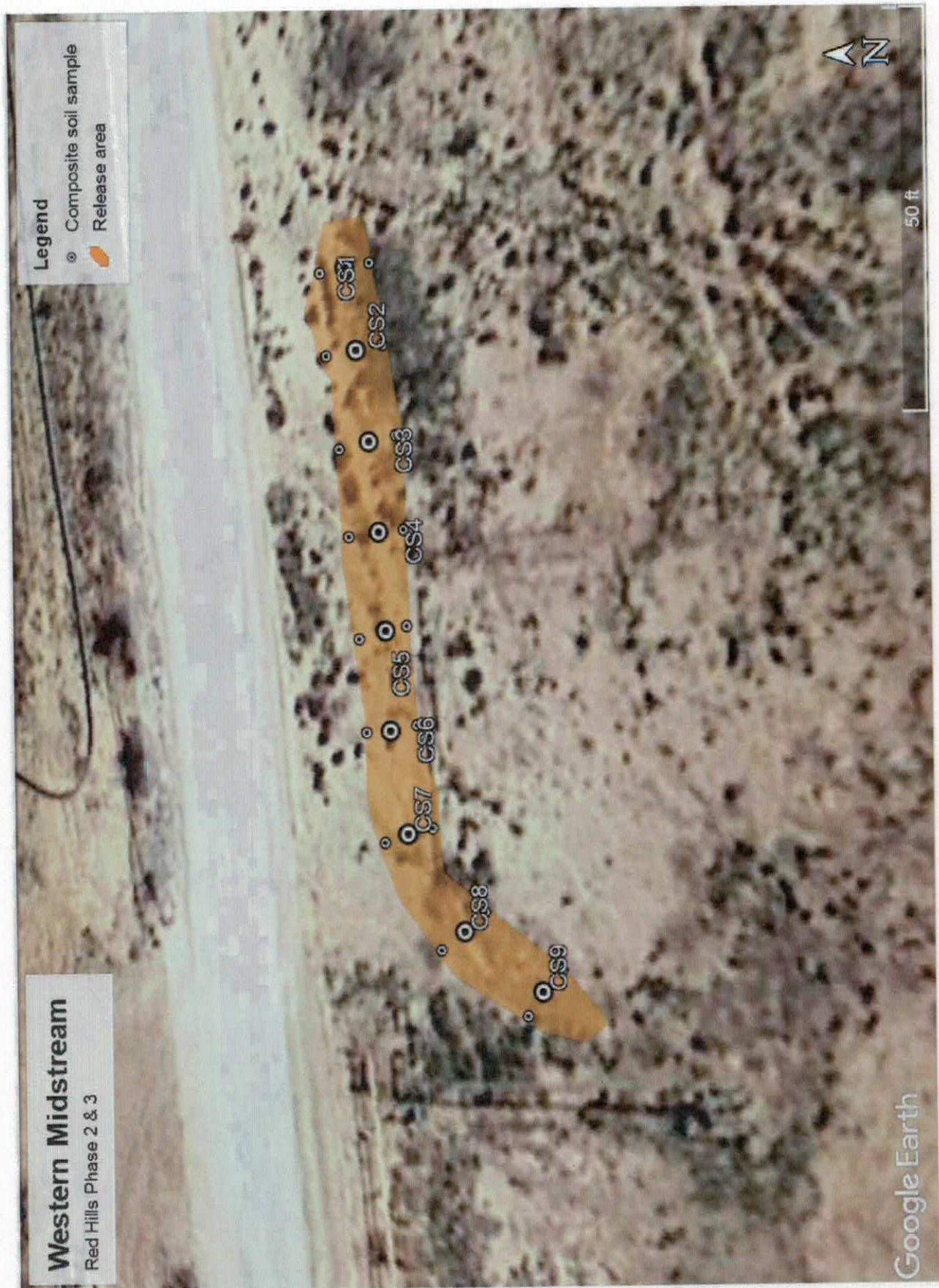


Final Photos Phase 3 and Phase 2



# Maps



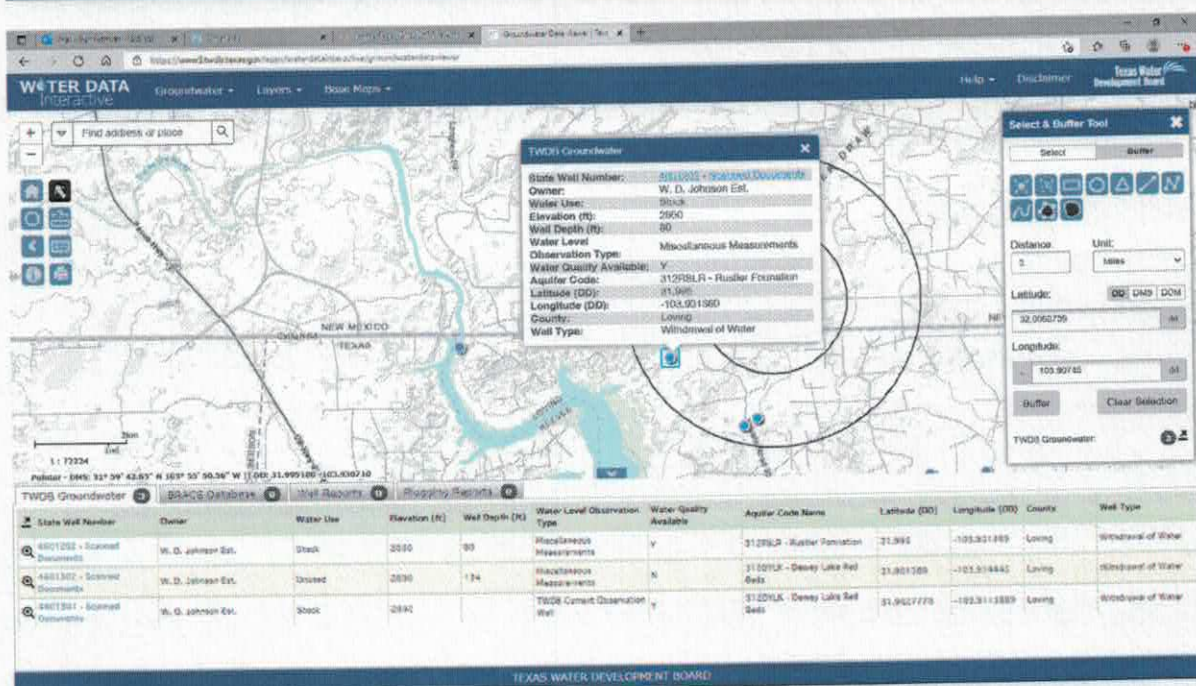
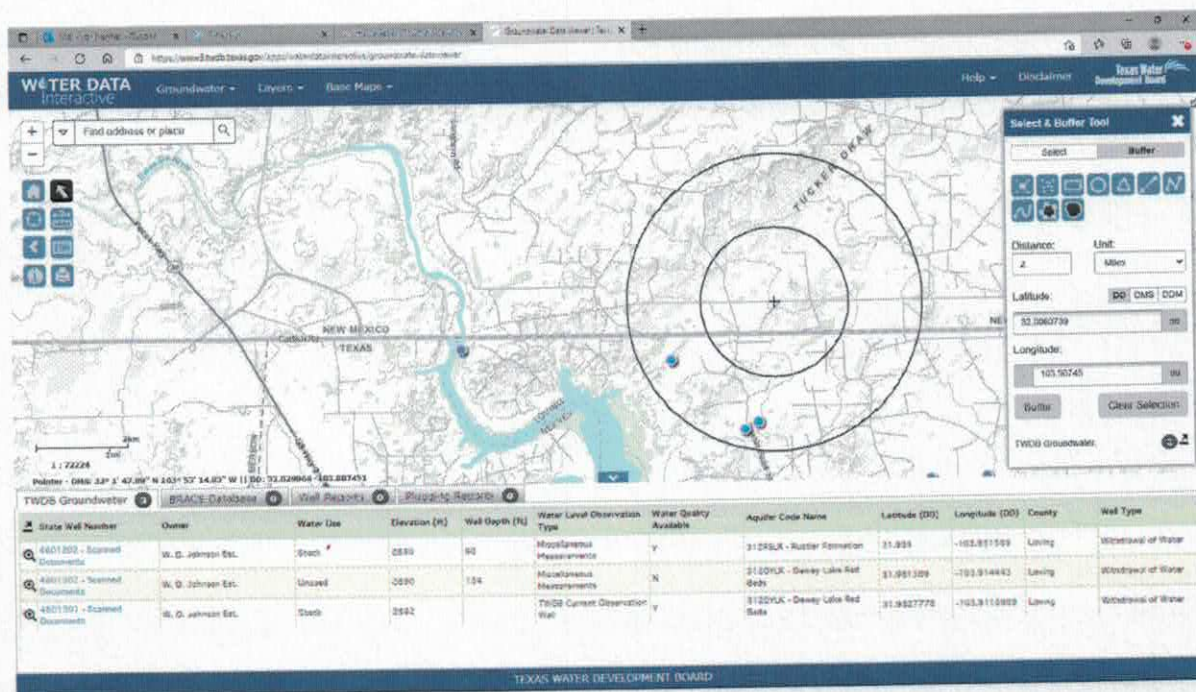


Western Midstream Red Hills Phase 2 and 3 plat map.









The nearest well with water data to the Western Midstream Red Hills Phase 3 and Phase 2 site is well number 4601202 and reflects a depth to ground water of 42.7 feet below ground surface (BGS). This information comes from the Texas Water Development Board Water Data Interactive web site.





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



## GWDB Reports and Downloads

## Well Basic Details

## Scanned Documents

State Well Number	4601202
County	Loving
River Basin	Rio Grande
Groundwater Management Area	3
Regional Water Planning Area	F - Region F
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	31.995
Latitude (degrees minutes seconds)	31° 59' 42" N
Longitude (decimal degrees)	-103.931389
Longitude (degrees minutes seconds)	103° 55' 53" W
Coordinate Source	+/- 1 Second
Aquifer Code	312RSLR - Rustler Formation
Aquifer	Rustler
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	2850
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	80
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	6/6/1966
Drilling Method	Cable Tool
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	W. D. Johnson Est.
Driller	Holder Water Well Drilling and Service
Other Data Available	Drillers Log; Specific Capacity
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	4/19/1995
Last Update Date	3/4/2020

**Remarks** Reported yield 3 GPM with 24 feet drawdown in 1966. Specific capacity 0.12 GPM/ft.

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	80

**Well Tests - No Data****Lithology**

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	4	surface sand and gravel
4	31	gyp rock
31	47	sandy clay
47	62	gravel and clay
62	78	sand and gravel (water)
78	80	anhydrite and gyp

**Annular Seal Range - No Data**





Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202



---

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

---



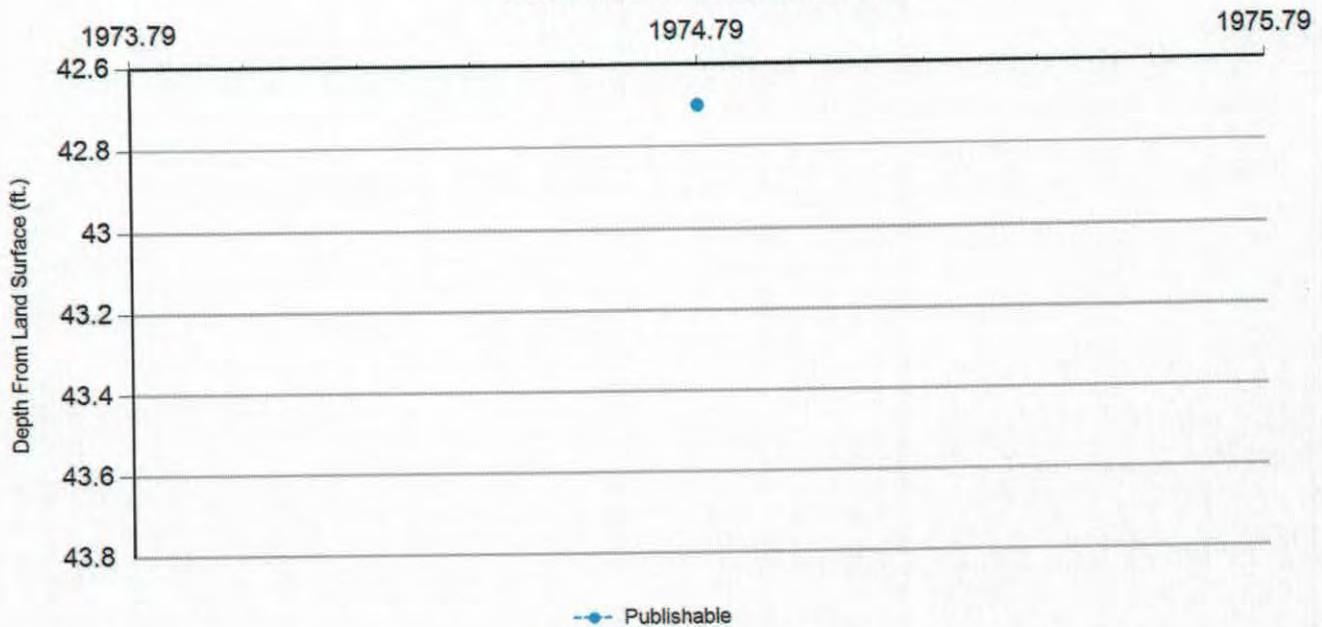


**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



### Water Level Measurements

Measurement Year (with decimal months)



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/17/1974		42.7		2807.3	1	Texas Water Development Board	Steel Tape		

### Code Descriptions

Status Code	Status Description
P	Publishable





**Texas Water Development Board (TWDB)**  
**Groundwater Database (GWDB)**  
**Well Information Report for State Well Number**  
**46-01-202**



### Water Quality Analysis

**Sample Date:** 4/19/1995    **Sample Time:** 1400    **Sample Number:** 1    **Collection Entity:** Texas Water Development Board

**Sampled Aquifer:** Rustler Formation

**Analyzed Lab:** Texas Department of Health    **Reliability:** Sampled using TWDB protocols

**Collection Remarks:** No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO <sub>3</sub>		227	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO <sub>3</sub> )		230	mg/L	
01503	ALPHA, DISSOLVED (PC/L)		20	PC/L	3
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	2	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		6	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
03503	BETA, DISSOLVED (PC/L)		22	PC/L	5
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO <sub>3</sub> )		280.68	mg/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.43	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	0.5	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		624	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO <sub>3</sub> )		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		349	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	8	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	8	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		21	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.44	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO <sub>3</sub> )		2356	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		46	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		130	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		192	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		2	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	50	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		6.84	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO <sub>3</sub> )		30.28	mg/L	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	<	0.01	mg/L	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	<	0.02	mg/L	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.7	mg/L	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		-65	MV	





**Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
46-01-202**



Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		6.85	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		12	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		12.8	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		37	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	6	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.36		
00932	SODIUM, CALCULATED, PERCENT		12	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		152	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		8770	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		1960	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		20.2	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	2	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		3504	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	8	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		274	ug/L	

\* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

**GWDB DISCLAIMER:** Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<http://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).





The Western Midstream Redhills Phase 3 and Phase 2 site is approximately 12.5 miles North of Orla, Texas.



# **Appendix 1**





**CLIENT:** Western Midstream

**SITE:** Redhills Phase 2 and 3

**ANALYST:** Von Norman **CONTACT #** 432-202-4180

[illegible]

~~2005 W. County Rd 100 Midland, Texas /9/06~~

CLIENT:	Western Midstream		
SITE:	Redhills Phase 3 and Phase 2		
ANALYST:	Von Norman	CONTACT #	432-202-4180

[illegible]

Released to Imaging: 9/21/2023 9:05:17 AM



## FIELD ANALYTICAL REPORT BACKGROUND

A portable TPH analyzer was used in accordance with EPA Method 418.1, to expedite the evaluation of delineation and dilution needs during the excavation phase of work required under SWR 3.91(d)(1). Once it was determined using the TPH portable analyzer that affected soils were brought to the surface and successfully reduced to <1% TPH, a representative soil sample of the excavation bottoms and composite sample of the spoil pile were taken and stabilized using ice and shipped to a certified laboratory for TPH analysis using Method TX 1005. Those sample results are included in this report in the following pages of Appendix 1.

The field portable TPH analyzer used in the field has the following manufacturer and model information:

Manufacturer: Wilks  
Instrument name: Infracal 2  
Model: TRANS-SP  
from Spectro Scientific.





9009 W CR160 Midland, Texas 79706

## LAB ANALYTICAL SUMMARY

CLIENT: Western Midstream

SITE: Redhills Phase 2 and 3

ANALYST: Von Norman CONTACT # 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	TPH/ppm	SAMPLE NOTE
CS1	4-12-22	6'	ND	2D13008-01
CS2	4-12-22	6'	ND	2D13008-02
CS3	4-12-22	4'	ND	2D13008-03
CS4	4-12-22	4'	ND	2D13008-04
CS5	4-12-22	2.5'	ND	2D13008-05
CS6	4-12-22	2.5'	ND	2D13008-06
CS7	4-12-22	3'	ND	2D13008-07
CS8	4-12-22	6'	ND	2D13008-08
CS9	4-12-22	6'	ND	2D13008-09
			<b>Chloride/ppm</b>	
CS1	4-12-22	6'	<b>259</b>	2D13008-01
CS2	4-12-22	6'	267	2D13008-02
CS3	4-12-22	4'	184	2D13008-03
CS4	4-12-22	4'	179	2D13008-04
CS5	4-12-22	2.5'	165	2D13008-05
CS6	4-12-22	2.5'	238	2D13008-06
CS7	4-12-22	3'	243	2D13008-07
CS8	4-12-22	6'	234	2D13008-08
CS9	4-12-22	6'	235	2D13008-09

ANALYST NOTES: Summary of PBEL lab report # 2D13008.

TPH by EPA Method 8015M. Page 1 of 4





9009 W CR160 Midland, Texas 79706

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**LAB ANALYTICAL SUMMARY****CLIENT:** Western Midstream**SITE:** Redhills Phase 2 and 3**ANALYST:** Von Norman **CONTACT #** 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	Benzene/ppm	SAMPLE NOTE
CS1	4-12-22	6'	ND	2D13008-01
CS2	4-12-22	6'	0.00148	2D13008-02
CS3	4-12-22	4'	ND	2D13008-03
CS4	4-12-22	4'	ND	2D13008-04
CS5	4-12-22	2.5'	ND	2D13008-05
CS6	4-12-22	2.5'	0.00446	2D13008-06
CS7	4-12-22	3'	0.00320	2D13008-07
CS8	4-12-22	6'	0.00207	2D13008-08
CS9	4-12-22	6'	0.00257	2D13008-09
			<b>Toluene/ppm</b>	
CS1	4-12-22	6'	0.0207	2D13008-01
CS2	4-12-22	6'	0.0910	2D13008-02
CS3	4-12-22	4'	0.00174	2D13008-03
CS4	4-12-22	4'	ND	2D13008-04
CS5	4-12-22	2.5'	ND	2D13008-05
CS6	4-12-22	2.5'	0.0528	2D13008-06
CS7	4-12-22	3'	0.0422	2D13008-07
CS8	4-12-22	6'	0.00307	2D13008-08
CS9	4-12-22	6'	0.0993	2D13008-09

**ANALYST NOTES:** Summary of PBEL lab report # 2D13008.TPH by EPA Method 8015M. Page 2 of 4





9009 W CR160 Midland, Texas 79706

## LAB ANALYTICAL SUMMARY

CLIENT: Western Midstream

SITE: Redhills Phase 2 and 3

ANALYST: Von Norman CONTACT # 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	Ethylbenzene/ppm	SAMPLE NOTE
CS1	4-12-22	6'	0.0112	2D13008-01
CS2	4-12-22	6'	0.0404	2D13008-02
CS3	4-12-22	4'	ND	2D13008-03
CS4	4-12-22	4'	ND	2D13008-04
CS5	4-12-22	2.5'	ND	2D13008-05
CS6	4-12-22	2.5'	0.00828	2D13008-06
CS7	4-12-22	3'	0.00861	2D13008-07
CS8	4-12-22	6'	0.00886	2D13008-08
CS9	4-12-22	6'	0.0267	2D13008-09
			Xylene (P/M)/ppm	
CS1	4-12-22	6'	0.0315	2D13008-01
CS2	4-12-22	6'	0.104	2D13008-02
CS3	4-12-22	4'	0.00210	2D13008-03
CS4	4-12-22	4'	ND	2D13008-04
CS5	4-12-22	2.5'	ND	2D13008-05
CS6	4-12-22	2.5'	0.0195	2D13008-06
CS7	4-12-22	3'	0.0212	2D13008-07
CS8	4-12-22	6'	0.0225	2D13008-08
CS9	4-12-22	6'	0.0632	2D13008-09

ANALYST NOTES: Summary of PBEL lab report # 2D13008.

TPH by EPA Method 8015M. Page 3 of 4









11420 W. County Rd 33 Midland, Texas 79710

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**LAB ANALYTICAL SUMMARY****CLIENT:** Western Midstream**SITE:** Redhills Phase 3 and Phase 2**ANALYST:** Von Norman **CONTACT #** 432-202-4180

SAMPLE ID	SAMPLE DATE	DEPTH	TPH/ppm	SAMPLE NOTE
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03
			<b>Chlorides</b>	
TP1	8-20-21	6'	105	1H31003-01
TP2	8-20-21	2.5'	96	1H31003-02
TP3	8-20-21	6'	113	1H31003-03
			<b>BTEX</b>	
TP1	8-20-21	6'	ND	1H31003-01
TP2	8-20-21	2.5'	ND	1H31003-02
TP3	8-20-21	6'	ND	1H31003-03

**ANALYST NOTES:** Summary of PBEL lab report # 1H31003.



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report

**Prepared for:**

Von Norman  
Stingray Environmental & Construction  
9013 West County Road 160  
Midland, TEXAS 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2

Location:

Lab Order Number: 1H31003



**Current Certification**

Report Date: 09/02/21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1	IH31003-01	Soil	08/20/21 13:00	08-31-2021 11:15
TP2	IH31003-02	Soil	08/20/21 13:30	08-31-2021 11:15
TP3	IH31003-03	Soil	08/20/21 14:00	08-31-2021 11:15



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP1**  
**1H31003-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	95.5 %		80-120		P110102	09/01/21 08:28	09/01/21 12:56	EPA 8021B	

**Organics by GC**

C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Surrogate: o-Terphenyl	119 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:03	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:03	[CALC]	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	105	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 14:56	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP2**  
**1H31003-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	114 %		80-120		P1I0102	09/01/21 08:28	09/01/21 13:17	EPA 8021B	

**Organics by GC**

C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Surrogate: o-Terphenyl	119 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:25	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:25	[CALC]	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	96.0	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:42	EPA 300.0	
% Moisture	3.0	0.1	%	1	P1I0104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**TP3**  
**1H31003-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.1 %		80-120		P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	115 %		80-120		P110102	09/01/21 08:28	09/01/21 13:38	EPA 8021B	

**Organics by GC**

C6-C12	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C12-C28	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
>C28-C35	ND	25.8	mg/kg dry	1	P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: 1-Chlorooctane	109 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Surrogate: o-Terphenyl	120 %		70-130		P1H3107	08/31/21 13:00	08/31/21 21:47	TX 1005	
Total Hydrocarbon nC6-nC35	ND	25.8	mg/kg dry	1	[CALC]	08/31/21 13:00	08/31/21 21:47	[CALC]	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	113	1.03	mg/kg dry	1	P1H3108	08/31/21 13:24	08/31/21 15:57	EPA 300.0	
% Moisture	3.0	0.1	%	1	P110104	09/01/21 10:17	09/01/21 15:50	ASTM D2216	



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch P110102 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P110102-BLK1)**

Prepared & Analyzed: 09/01/21

Benzene	ND	0.00100	mg/kg wet						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00200	"						
Xylene (o)	ND	0.00100	"						
Surrogate: 1,4-Difluorobenzene	0.130		"	0.120		108		80-120	
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7		80-120	

**LCS (P110102-BS1)**

Prepared & Analyzed: 09/01/21

Benzene	0.100	0.00100	mg/kg wet	0.100		100		70-130	
Toluene	0.0989	0.00100	"	0.100		98.9		70-130	
Ethylbenzene	0.0949	0.00100	"	0.100		94.9		70-130	
Xylene (p/m)	0.196	0.00200	"	0.200		98.0		70-130	
Xylene (o)	0.0803	0.00100	"	0.100		80.3		70-130	
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102		80-120	
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5		80-120	

**LCS Dup (P110102-BSD1)**

Prepared & Analyzed: 09/01/21

Benzene	0.0942	0.00100	mg/kg wet	0.100		94.2	70-130	6.01	20
Toluene	0.0939	0.00100	"	0.100		93.9	70-130	5.23	20
Ethylbenzene	0.0886	0.00100	"	0.100		88.6	70-130	6.96	20
Xylene (p/m)	0.185	0.00200	"	0.200		92.3	70-130	5.96	20
Xylene (o)	0.0801	0.00100	"	0.100		80.1	70-130	0.262	20
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120		
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120		

**Matrix Spike (P110102-MS1)**

Source: 1H31003-03

Prepared & Analyzed: 09/01/21

Benzene	0.0709	0.00103	mg/kg dry	0.103	ND	68.8	80-120		QM-07
Toluene	0.0585	0.00103	"	0.103	ND	56.8	80-120		QM-07
Ethylbenzene	0.0487	0.00103	"	0.103	ND	47.2	80-120		QM-07
Xylene (p/m)	0.0979	0.00206	"	0.206	ND	47.5	80-120		QM-07
Xylene (o)	0.0430	0.00103	"	0.103	ND	41.8	80-120		QM-07
Surrogate: 1,4-Difluorobenzene	0.128		"	0.124		103	80-120		
Surrogate: 4-Bromofluorobenzene	0.115		"	0.124		92.8	80-120		



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P110102 - *** DEFAULT PREP ***</b>										
<b>Matrix Spike Dup (P110102-MSD1)</b>	<b>Source: 1H31003-03</b>			<b>Prepared &amp; Analyzed: 09/01/21</b>						
Benzene	0.0835	0.00103	mg/kg dry	0.103	ND	81.0	80-120	16.3	20	
Toluene	0.0766	0.00103	"	0.103	ND	74.3	80-120	26.8	20	QM-07
Ethylbenzene	0.0694	0.00103	"	0.103	ND	67.3	80-120	35.0	20	QM-07
Xylene (p/m)	0.141	0.00206	"	0.206	ND	68.5	80-120	36.3	20	QM-07
Xylene (o)	0.0609	0.00103	"	0.103	ND	59.0	80-120	34.3	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.124		"	0.124		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.124		87.9	80-120			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3107 - TX 1005</b>									
<b>Blank (P1H3107-BLK1)</b>					Prepared & Analyzed: 08/31/21				
C6-C12	ND	25.0	mg/kg wet						
>C12-C28	ND	25.0	"						
>C28-C35	ND	25.0	"						
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130		
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130		
<b>LCS (P1H3107-BS1)</b>					Prepared & Analyzed: 08/31/21				
C6-C12	924	25.0	mg/kg wet	1000		92.4	75-125		
>C12-C28	857	25.0	"	1000		85.7	75-125		
Surrogate: 1-Chlorooctane	101		"	100		101	70-130		
Surrogate: o-Terphenyl	55.5		"	50.0		111	70-130		
<b>LCS Dup (P1H3107-BSD1)</b>					Prepared & Analyzed: 08/31/21				
C6-C12	922	25.0	mg/kg wet	1000		92.2	75-125	0.216	20
>C12-C28	840	25.0	"	1000		84.0	75-125	2.00	20
Surrogate: 1-Chlorooctane	102		"	100		102	70-130		
Surrogate: o-Terphenyl	57.1		"	50.0		114	70-130		
<b>Calibration Check (P1H3107-CCV1)</b>					Prepared & Analyzed: 08/31/21				
C6-C12	448	25.0	mg/kg wet	500		89.6	85-115		
>C12-C28	463	25.0	"	500		92.6	85-115		
Surrogate: 1-Chlorooctane	117		"	100		117	70-130		
Surrogate: o-Terphenyl	55.8		"	50.0		112	70-130		
<b>Calibration Check (P1H3107-CCV2)</b>					Prepared & Analyzed: 08/31/21				
C6-C12	442	25.0	mg/kg wet	500		88.5	85-115		
>C12-C28	460	25.0	"	500		92.0	85-115		
Surrogate: 1-Chlorooctane	116		"	100		116	70-130		
Surrogate: o-Terphenyl	53.6		"	50.0		107	70-130		



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**Organics by GC - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1H3107 - TX 1005**

**Calibration Check (P1H3107-CCV3)**

Prepared & Analyzed: 08/31/21

C6-C12	457	25.0	mg/kg wet	500		91.4	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	55.6		"	50.0		111	70-130			

**Matrix Spike (P1H3107-MS1)**

Source: 1H31003-03

Prepared & Analyzed: 08/31/21

C6-C12	875	25.8	mg/kg dry	1030	ND	84.9	75-125			
>C12-C28	800	25.8	"	1030	21.8	75.5	75-125			
Surrogate: 1-Chlorooctane	104		"	103		100	70-130			
Surrogate: o-Terphenyl	56.0		"	51.5		109	70-130			

**Matrix Spike Dup (P1H3107-MSD1)**

Source: 1H31003-03

Prepared & Analyzed: 08/31/21

C6-C12	872	25.8	mg/kg dry	1030	ND	84.5	75-125	0.381	20	
>C12-C28	812	25.8	"	1030	21.8	76.7	75-125	1.52	20	
Surrogate: 1-Chlorooctane	104		"	103		101	70-130			
Surrogate: o-Terphenyl	56.3		"	51.5		109	70-130			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1H3108 - *** DEFAULT PREP ***</b>										
<b>Blank (P1H3108-BLK1)</b>				Prepared & Analyzed: 08/31/21						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P1H3108-BS1)</b>				Prepared & Analyzed: 08/31/21						
Chloride	402	1.00	mg/kg wet	400		101	90-110			
<b>LCS Dup (P1H3108-BSD1)</b>				Prepared & Analyzed: 08/31/21						
Chloride	406	1.00	mg/kg wet	400		101	90-110	0.888	20	
<b>Calibration Blank (P1H3108-CCB1)</b>				Prepared & Analyzed: 08/31/21						
Chloride	-0.206		mg/kg wet							
<b>Calibration Blank (P1H3108-CCB2)</b>				Prepared & Analyzed: 08/31/21						
Chloride	0.00		mg/kg wet							
<b>Calibration Check (P1H3108-CCV1)</b>				Prepared & Analyzed: 08/31/21						
Chloride	19.6		mg/kg	20.0		98.0	90-110			
<b>Calibration Check (P1H3108-CCV2)</b>				Prepared & Analyzed: 08/31/21						
Chloride	19.9		mg/kg	20.0		99.5	90-110			
<b>Calibration Check (P1H3108-CCV3)</b>				Prepared & Analyzed: 08/31/21						
Chloride	19.3		mg/kg	20.0		96.4	90-110			
<b>Matrix Spike (P1H3108-MS1)</b>				Source: 1H31003-01 Prepared & Analyzed: 08/31/21						
Chloride	602	1.03	mg/kg dry	515	105	96.5	80-120			
<b>Matrix Spike (P1H3108-MS2)</b>				Source: 1H27004-02 Prepared & Analyzed: 08/31/21						
Chloride	3640	11.8	mg/kg dry	1180	2320	112	80-120			



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P1H3108 - \*\*\* DEFAULT PREP \*\*\***

**Matrix Spike Dup (P1H3108-MSD1)**

**Source: 1H31003-01**

Prepared & Analyzed: 08/31/21

Chloride	597	1.03	mg/kg dry	515	105	95.4	80-120	0.949	20
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**Matrix Spike Dup (P1H3108-MSD2)**

**Source: 1H27004-02**

Prepared & Analyzed: 08/31/21

Chloride	3580	11.8	mg/kg dry	1180	2320	107	80-120	1.56	20
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**Batch P1I0104 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P1I0104-BLK1)**

Prepared & Analyzed: 09/01/21

% Moisture	ND	0.1	%						
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Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 3 & 2  
Project Number: Western Midstream Red Hills Phase 3 & 2  
Project Manager: Von Norman

### Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 9/2/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



PВЕТ АВ

**SIS REQUEST**  
Permian Basin Environmental Lab, LP  
1400 Rankin HWY  
Midland, Texas 79701

☐ Standard ☐ TRRP ☐ NPDES

LAB # (lab use only)		FIELD CODE	
ORDER #: 1431003			
Beginning Depth	Ending Depth	Date Sampled	Time Sampled
Ice		HNO <sub>3</sub>	
HCl		H <sub>2</sub> SO <sub>4</sub>	
NaOH		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	
None		Other (Specify)	
DW=Drinking Water SL=Sludge		GW = Groundwater S=Soil/Solid	
NP=Non-Potable		Specify Other	
TPH, TX 1003		Anions (Cl, SO <sub>4</sub> , Alkalinity)	
BTEX 8021B 8030 or BTEX 8260		Chloride	
TOTAL		TCLP	
Analyze For:			
Standard TAT		RUSH TAT (Pre-Schedule) 2-48-72 hrs	



received: - 11 r N  
Adjusted: - 11 r N

Temperature Upon Receipt: \_\_\_\_\_



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



## Analytical Report Rev. 1

**Prepared for:**

Von Norman  
Stingray Environmental & Construction  
9013 West County Road 160  
Midland, TEXAS 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Location: New Mexico  
Lab Order Number: 2D13008



**Current Certification**

Report Date: 04/28/22



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS1	2D13008-01	Soil	04/12/22 10:00	04-13-2022 11:18
CS2	2D13008-02	Soil	04/12/22 10:15	04-13-2022 11:18
CS3	2D13008-03	Soil	04/12/22 10:40	04-13-2022 11:18
CS4	2D13008-04	Soil	04/12/22 11:05	04-13-2022 11:18
CS5	2D13008-05	Soil	04/12/22 11:30	04-13-2022 11:18
CS6	2D13008-06	Soil	04/12/22 12:15	04-13-2022 11:18
CS7	2D13008-07	Soil	04/12/22 13:30	04-13-2022 11:18
CS8	2D13008-08	Soil	04/12/22 14:10	04-13-2022 11:18
CS9	2D13008-09	Soil	04/12/22 14:45	04-13-2022 11:18

On 04/26/22 PBELAB Staff was advised to add BTEX and Chloride analysis to the report for Workorder 2D13008. This was on the last day of the holding time for BTEX analysis, however, the samples had been stored at -10 Degrees C and the sample analysis was completed before midnight on the 26th. Therefore the analysis was within the recommended holding time. The revised report is attached below.



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS1**  
**2D13008-01 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Toluene	0.0207	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Ethylbenzene	0.0112	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Xylene (p/m)	0.0315	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Xylene (o)	0.00964	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Surrogate: 4-Bromofluorobenzene	113 %	80-120			P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B
Surrogate: 1,4-Difluorobenzene	101 %	80-120			P2D2602	04/26/22 12:30	04/26/22 15:00	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	259	1.01	mg/kg dry	1	P2D2603	04/26/22 13:08	04/26/22 21:06	EPA 300.0
% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M
Surrogate: 1-Chlorooctane	86.0 %	70-130			P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M
Surrogate: o-Terphenyl	92.7 %	70-130			P2D1304	04/13/22 12:04	04/13/22 22:28	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 22:28	calc

Permian Basin Environmental Lab, L.P.

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Page 3 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS2**  
**2D13008-02 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00148</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:22	EPA 8021B
<b>Toluene</b>	<b>0.0910</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:22	EPA 8021B
<b>Ethylbenzene</b>	<b>0.0404</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:22	EPA 8021B
<b>Xylene (p/m)</b>	<b>0.104</b>	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:22	EPA 8021B
<b>Xylene (o)</b>	<b>0.0289</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:22	EPA 8021B
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>103 %</i>	<i>80-120</i>			<i>P2D2602</i>	<i>04/26/22 12:30</i>	<i>04/26/22 15:22</i>	<i>EPA 8021B</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>118 %</i>	<i>80-120</i>			<i>P2D2602</i>	<i>04/26/22 12:30</i>	<i>04/26/22 15:22</i>	<i>EPA 8021B</i>

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>267</b>	1.01	mg/kg dry	1	P2D2603	04/26/22 13:08	04/26/22 21:21	EPA 300.0
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
<b>&gt;C12-C28</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
<b>&gt;C28-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 22:51	TPH 8015M
<i>Surrogate: 1-Chlorooctane</i>	<i>86.5 %</i>	<i>70-130</i>			<i>P2D1304</i>	<i>04/13/22 12:04</i>	<i>04/13/22 22:51</i>	<i>TPH 8015M</i>
<i>Surrogate: o-Terphenyl</i>	<i>91.8 %</i>	<i>70-130</i>			<i>P2D1304</i>	<i>04/13/22 12:04</i>	<i>04/13/22 22:51</i>	<i>TPH 8015M</i>
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 22:51	calc

Permian Basin Environmental Lab, L.P.

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Page 4 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS3**  
**2D13008-03 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Toluene	0.00174	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Xylene (p/m)	0.00210	0.00206	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Surrogate: 4-Bromofluorobenzene	110 %	80-120			P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B
Surrogate: 1,4-Difluorobenzene	102 %	80-120			P2D2602	04/26/22 12:30	04/26/22 15:43	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	184	1.03	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 11:26	EPA 300.0
% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M
Surrogate: 1-Chlorooctane	87.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M
Surrogate: o-Terphenyl	95.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:13	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 23:13	calc

Permian Basin Environmental Lab, L.P.

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Page 5 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS4**  
**2D13008-04 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Surrogate: 4-Bromofluorobenzene	108 %	80-120			P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B
Surrogate: 1,4-Difluorobenzene	101 %	80-120			P2D2602	04/26/22 12:30	04/26/22 16:05	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	179	1.03	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 11:41	EPA 300.0
% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M
Surrogate: 1-Chlorooctane	81.2 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M
Surrogate: o-Terphenyl	88.7 %	70-130			P2D1304	04/13/22 12:04	04/13/22 23:36	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/13/22 23:36	calc

Permian Basin Environmental Lab, L.P.

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Page 6 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS5**  
**2D13008-05 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Surrogate: 1,4-Difluorobenzene	101 %		80-120		P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B
Surrogate: 4-Bromofluorobenzene	110 %		80-120		P2D2602	04/26/22 12:30	04/26/22 16:27	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	165	1.03	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 11:56	EPA 300.0
% Moisture	3.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Surrogate: 1-Chlorooctane	87.7 %		70-130		P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Surrogate: o-Terphenyl	96.1 %		70-130		P2D1304	04/13/22 12:04	04/14/22 00:43	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 00:43	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 7 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS6**  
**2D13008-06 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	0.00446	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Toluene	0.0528	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Ethylbenzene	0.00828	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Xylene (p/m)	0.0195	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Xylene (o)	0.00530	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Surrogate: 1,4-Difluorobenzene	101 %	80-120			P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B
Surrogate: 4-Bromofluorobenzene	108 %	80-120			P2D2602	04/26/22 12:30	04/26/22 16:48	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	238	1.01	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 12:11	EPA 300.0
% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M
Surrogate: 1-Chlorooctane	92.4 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M
Surrogate: o-Terphenyl	92.3 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:05	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:05	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 8 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS7**  
**2D13008-07 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00320</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
<b>Toluene</b>	<b>0.0422</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
<b>Ethylbenzene</b>	<b>0.00861</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
<b>Xylene (p/m)</b>	<b>0.0212</b>	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
<b>Xylene (o)</b>	<b>0.00591</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B
Surrogate: 4-Bromofluorobenzene		111 %	80-120		P2D2602	04/26/22 12:30	04/26/22 17:10	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>243</b>	1.01	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 12:27	EPA 300.0
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M
<b>&gt;C12-C28</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M
<b>&gt;C28-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M
Surrogate: 1-Chlorooctane		79.2 %	70-130		P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M
Surrogate: o-Terphenyl		77.7 %	70-130		P2D1304	04/13/22 12:04	04/14/22 01:28	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:28	calc

Permian Basin Environmental Lab, L.P.

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9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS8**  
**2D13008-08 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00207</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
<b>Toluene</b>	<b>0.0307</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
<b>Ethylbenzene</b>	<b>0.00886</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
<b>Xylene (p/m)</b>	<b>0.0225</b>	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
<b>Xylene (o)</b>	<b>0.00608</b>	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
Surrogate: 1,4-Difluorobenzene	102 %	80-120			P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B
Surrogate: 4-Bromofluorobenzene	110 %	80-120			P2D2602	04/26/22 12:30	04/26/22 17:31	EPA 8021B

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>234</b>	1.01	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 12:42	EPA 300.0
<b>% Moisture</b>	<b>1.0</b>	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M
<b>&gt;C12-C28</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M
<b>&gt;C28-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M
Surrogate: 1-Chlorooctane	79.0 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M
Surrogate: o-Terphenyl	79.6 %	70-130			P2D1304	04/13/22 12:04	04/14/22 01:51	TPH 8015M
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>ND</b>	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 01:51	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 10 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**CS9**  
**2D13008-09 (Soil)**

Analyte	Limit Result	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Permian Basin Environmental Lab, L.P.</b>								
<b>BTEX by 8021B</b>								
Benzene	0.00257	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B
Toluene	0.0993	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B
Ethylbenzene	0.0267	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B
Xylene (p/m)	0.0632	0.00202	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B
Xylene (o)	0.0167	0.00101	mg/kg dry	1	P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B
Surrogate: 4-Bromofluorobenzene	112 %	80-120		P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	100 %	80-120		P2D2602	04/26/22 12:30	04/26/22 17:53	EPA 8021B	
<b>General Chemistry Parameters by EPA / Standard Methods</b>								
Chloride	235	1.01	mg/kg dry	1	P2D2701	04/27/22 08:47	04/27/22 12:57	EPA 300.0
% Moisture	1.0	0.1	%	1	P2D1309	04/13/22 16:59	04/13/22 17:01	ASTM D2216
<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>								
C6-C12	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M
>C12-C28	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M
>C28-C35	ND	25.3	mg/kg dry	1	P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M
Surrogate: 1-Chlorooctane	82.1 %	70-130		P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
Surrogate: o-Terphenyl	81.9 %	70-130		P2D1304	04/13/22 12:04	04/14/22 02:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	04/13/22 12:04	04/14/22 02:14	calc

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 11 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P2D2602 - General Preparation (GC)**

**Blank (P2D2602-BLK1)**

Prepared & Analyzed: 04/26/22

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	80-120			

**LCS (P2D2602-BS1)**

Prepared & Analyzed: 04/26/22

Benzene	0.0960	0.00100	mg/kg wet	0.100		96.0	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0982	0.00100	"	0.100		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

**LCS Dup (P2D2602-BSD1)**

Prepared & Analyzed: 04/26/22

Benzene	0.0872	0.00100	mg/kg wet	0.100		87.2	80-120	9.64	20	
Toluene	0.0862	0.00100	"	0.100		86.2	80-120	10.1	20	
Ethylbenzene	0.0958	0.00100	"	0.100		95.8	80-120	9.75	20	
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120	9.89	20	
Xylene (o)	0.0885	0.00100	"	0.100		88.5	80-120	10.5	20	
Surrogate: 4-Bromofluorobenzene	0.140		"	0.120		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	80-120			

**Calibration Check (P2D2602-CCV1)**

Prepared & Analyzed: 04/26/22

Benzene	0.0960	0.00100	mg/kg wet	0.102		94.1	80-120			
Toluene	0.0930	0.00100	"	0.102		91.2	80-120			
Ethylbenzene	0.0935	0.00100	"	0.102		91.6	80-120			
Xylene (p/m)	0.198	0.00200	"	0.204		97.2	80-120			
Xylene (o)	0.0947	0.00100	"	0.102		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 12 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P2D2602 - General Preparation (GC)**

Calibration Check (P2D2602-CCV3)		Prepared & Analyzed: 04/26/22								
Benzene	0.107	0.00100	mg/kg wet	0.102		105	80-120			
Toluene	0.103	0.00100	"	0.102		101	80-120			
Ethylbenzene	0.103	0.00100	"	0.102		101	80-120			
Xylene (p/m)	0.216	0.00200	"	0.204		106	80-120			
Xylene (o)	0.106	0.00100	"	0.102		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

Matrix Spike (P2D2602-MS1)		Source: 2D13008-01		Prepared & Analyzed: 04/26/22						
Benzene	0.0972	0.00101	mg/kg dry	0.101	ND	96.2	80-120			
Toluene	0.122	0.00101	"	0.101	0.0207	101	80-120			
Ethylbenzene	0.111	0.00101	"	0.101	0.0112	98.9	80-120			
Xylene (p/m)	0.227	0.00202	"	0.202	0.0315	97.0	80-120			
Xylene (o)	0.104	0.00101	"	0.101	0.00964	93.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.141		"	0.121		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.121		105	80-120			

Matrix Spike Dup (P2D2602-MSD1)		Source: 2D13008-01		Prepared & Analyzed: 04/26/22						
Benzene	0.0909	0.00101	mg/kg dry	0.101	ND	90.0	80-120	6.72	20	
Toluene	0.114	0.00101	"	0.101	0.0207	91.9	80-120	9.14	20	
Ethylbenzene	0.106	0.00101	"	0.101	0.0112	94.0	80-120	5.17	20	
Xylene (p/m)	0.217	0.00202	"	0.202	0.0315	91.7	80-120	5.61	20	
Xylene (o)	0.0996	0.00101	"	0.101	0.00964	89.0	80-120	5.26	20	
Surrogate: 4-Bromofluorobenzene	0.141		"	0.121		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.121		103	80-120			

Permian Basin Environmental Lab, L.P.

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9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P2D1309 - *** DEFAULT PREP ***</b>										
<b>Blank (P2D1309-BLK1)</b>	Prepared & Analyzed: 04/13/22									
% Moisture	ND	0.1	%							
<b>Duplicate (P2D1309-DUP1)</b>	Source: 2D13008-04 Prepared & Analyzed: 04/13/22									
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
<b>Batch P2D2603 - *** DEFAULT PREP ***</b>										
<b>Blank (P2D2603-BLK1)</b>	Prepared & Analyzed: 04/26/22									
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P2D2603-BS1)</b>	Prepared & Analyzed: 04/26/22									
Chloride	41.9		mg/kg	40.0		105	90-110			
<b>LCS Dup (P2D2603-BSD1)</b>	Prepared & Analyzed: 04/26/22									
Chloride	42.1		mg/kg	40.0		105	90-110	0.269	10	
<b>Calibration Blank (P2D2603-CCB1)</b>	Prepared & Analyzed: 04/26/22									
Chloride	0.0860		mg/kg wet							
<b>Calibration Blank (P2D2603-CCB2)</b>	Prepared & Analyzed: 04/26/22									
Chloride	0.00		mg/kg wet							
<b>Calibration Check (P2D2603-CCV1)</b>	Prepared & Analyzed: 04/26/22									
Chloride	21.1		mg/kg	20.0		105	90-110			
<b>Calibration Check (P2D2603-CCV2)</b>	Prepared & Analyzed: 04/26/22									
Chloride	21.0		mg/kg	20.0		105	90-110			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 14 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P2D2603 - *** DEFAULT PREP ***</b>										
<b>Calibration Check (P2D2603-CCV3)</b>				Prepared & Analyzed: 04/26/22						
Chloride	21.4		mg/kg	20.0		107	90-110			
<b>Matrix Spike (P2D2603-MS1)</b>				Source: 2D26004-01 Prepared & Analyzed: 04/26/22						
Chloride	410	1.10	mg/kg dry	275	158	91.6	80-120			
<b>Matrix Spike (P2D2603-MS2)</b>				Source: 2D22004-04 Prepared & Analyzed: 04/26/22						
Chloride	455	1.04	mg/kg dry	260	183	104	80-120			
<b>Matrix Spike Dup (P2D2603-MSD1)</b>				Source: 2D26004-01 Prepared & Analyzed: 04/26/22						
Chloride	428	1.10	mg/kg dry	275	158	98.5	80-120	4.51	20	
<b>Matrix Spike Dup (P2D2603-MSD2)</b>				Source: 2D22004-04 Prepared & Analyzed: 04/26/22						
Chloride	450	1.04	mg/kg dry	260	183	103	80-120	0.990	20	
<b>Batch P2D2701 - *** DEFAULT PREP ***</b>										
<b>Blank (P2D2701-BLK1)</b>				Prepared & Analyzed: 04/27/22						
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P2D2701-BS1)</b>				Prepared & Analyzed: 04/27/22						
Chloride	42.4		mg/kg	40.0		106	90-110			
<b>LCS Dup (P2D2701-BSD1)</b>				Prepared & Analyzed: 04/27/22						
Chloride	41.4		mg/kg	40.0		104	90-110	2.43	10	
<b>Calibration Blank (P2D2701-CCB1)</b>				Prepared & Analyzed: 04/27/22						
Chloride	0.0820		mg/kg wet							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 15 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P2D2701 - *** DEFAULT PREP ***</b>										
<b>Calibration Blank (P2D2701-CCB2)</b>				Prepared & Analyzed: 04/27/22						
Chloride	0.00		mg/kg wet							
<b>Calibration Check (P2D2701-CCV1)</b>				Prepared & Analyzed: 04/27/22						
Chloride	20.9		mg/kg	20.0		105	90-110			
<b>Calibration Check (P2D2701-CCV2)</b>				Prepared & Analyzed: 04/27/22						
Chloride	21.1		mg/kg	20.0		105	90-110			
<b>Calibration Check (P2D2701-CCV3)</b>				Prepared & Analyzed: 04/27/22						
Chloride	21.6		mg/kg	20.0		108	90-110			
<b>Matrix Spike (P2D2701-MS1)</b>				<b>Source: 2D26008-01</b>		Prepared & Analyzed: 04/27/22				
Chloride	565	1.00	mg/kg dry	250	249	126	80-120			QM-05
<b>Matrix Spike (P2D2701-MS2)</b>				<b>Source: 2D26006-01</b>		Prepared & Analyzed: 04/27/22				
Chloride	13300	52.6	mg/kg dry	2630	10500	108	80-120			
<b>Matrix Spike Dup (P2D2701-MSD1)</b>				<b>Source: 2D26008-01</b>		Prepared & Analyzed: 04/27/22				
Chloride	526	1.00	mg/kg dry	250	249	111	80-120	7.19	20	
<b>Matrix Spike Dup (P2D2701-MSD2)</b>				<b>Source: 2D26006-01</b>		Prepared & Analyzed: 04/27/22				
Chloride	12700	52.6	mg/kg dry	2630	10500	85.4	80-120	4.59	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 16 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P2D1304 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P2D1304-BLK1)**

Prepared & Analyzed: 04/13/22

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.9		"	100		98.9	70-130			
Surrogate: o-Terphenyl	53.7		"	50.0		107	70-130			

**LCS (P2D1304-BS1)**

Prepared & Analyzed: 04/13/22

C6-C12	819	25.0	mg/kg wet	1000		81.9	75-125			
>C12-C28	946	25.0	"	1000		94.6	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	54.8		"	50.0		110	70-130			

**LCS Dup (P2D1304-BSD1)**

Prepared & Analyzed: 04/13/22

C6-C12	825	25.0	mg/kg wet	1000		82.5	75-125	0.821	20	
>C12-C28	976	25.0	"	1000		97.6	75-125	3.08	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	62.7		"	50.0		125	70-130			

**Calibration Check (P2D1304-CCV1)**

Prepared & Analyzed: 04/13/22

C6-C12	474	25.0	mg/kg wet	500		94.8	85-115			
>C12-C28	500	25.0	"	500		99.9	85-115			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	55.7		"	50.0		111	70-130			

**Calibration Check (P2D1304-CCV2)**

Prepared: 04/13/22 Analyzed: 04/14/22

C6-C12	477	25.0	mg/kg wet	500		95.3	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	55.2		"	50.0		110	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 17 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch P2D1304 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P2D1304-MS1)</b>	<b>Source: 2D13008-09</b>			<b>Prepared: 04/13/22</b>		<b>Analyzed: 04/14/22</b>				
C6-C12	776	25.3	mg/kg dry	1010	ND	76.8	75-125			
>C12-C28	904	25.3	"	1010	23.3	87.2	75-125			
Surrogate: 1-Chlorooctane	114		"	101		113	70-130			
Surrogate: o-Terphenyl	51.7		"	50.5		102	70-130			
<b>Matrix Spike Dup (P2D1304-MSD1)</b>	<b>Source: 2D13008-09</b>			<b>Prepared: 04/13/22</b>		<b>Analyzed: 04/14/22</b>				
C6-C12	757	25.3	mg/kg dry	1010	ND	75.0	75-125	2.44	20	
>C12-C28	891	25.3	"	1010	23.3	85.9	75-125	1.49	20	
Surrogate: 1-Chlorooctane	120		"	101		119	70-130			
Surrogate: o-Terphenyl	49.6		"	50.5		98.3	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 18 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

### Notes and Definitions

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 4/28/2022

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 19 of 21



Stingray Environmental & Construction  
9013 West County Road 160  
Midland TEXAS, 79706

Project: Western Midstream Red Hills Phase 2 & 3  
Project Number: Western Midstream Red Hills Phase 2 & 3  
Project Manager: Von Norman

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Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

Page 20 of 21







## **Appendix 2**





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Ornel DominguezPhone No. 432-634-3620

## GENERATOR

NO.

200871

Operator No.

Operators Name

Address

City, State, Zip

Phone No.

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

RUSS PRAN 29 Fd Conn #1

END

30-0K-32106

NON-DRILLING

## EXEMPT E&amp;P Waste/Service Identification and Amount (please volume next to waste type in barrels or cubic yards)

Oil Based Muds

Oil Based Cuttings

Water Based Muds

Water Based Cuttings

Produced Formation Solids

Tank Bottoms

E&amp;P Contaminated Soil

Gas Plant Waste

## NON-INJECTABLE WATERS

Washout Water (Non-Injectable)

Completion Fluid/Flow back (Non-Injectable)

Produced Water (Non-Injectable)

Gathering Line Water/Waste (Non-Injectable)

## INTERNAL USE ONLY

Truck Washout (exempt waste)

## OTHER EXEMPT WASTES (type and generation process of the waste)

EMD Dump

## WASTE GENERATION PROCESS:

☒

DRILLING

☐

COMPLETION

☐

PRODUCTION

☐

GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other

\*please select from 'Non-Exempt Waste List' on back

QUANTITY

B - BARRELS

Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Ornel Dominguez

(PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

Ornel Dominguez

SIGNATURE

## TRANSPORTER

Transporter's

Name

Address

Phone No.

CLASSIC

P.O. Box 1545

Stephenville, TX 76401

325-340-0745

Driver's Name

Print Name

Phone No.

Truck No.

John R

140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20

SHIPMENT DATE

John R

DRIVER'S SIGNATURE

08-20-21

DELIVERY DATE

John R

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:21 pm OUT:

## DISPOSAL FACILITY

## RECEIVING AREA

Site Name/

Permit No.

Address

Red Bluff Facility/ STF-065

5053 US Highway 285, Oita, TX 79770

Phone No.

432-448-4239

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l)

Conductivity

(mmhos/cm)

pH

## TANK BOTTOMS

Feet

Inches

1st Gauge

2nd Gauge

Received

BS&amp;W/BBLS Received

Free Water

Total Received

BS&amp;W (%)

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Doerr

Phone No. \_\_\_\_\_

## GENERATOR

NO. 230675

Operator No. \_\_\_\_\_  
 Operator Name WESTERN MIDSTREAM  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well \_\_\_\_\_  
 Name & No. Ross DRHW 29 FED Comm #001  
 County FOOT  
 API No. 30-015-32106  
 Rig Name & No. \_\_\_\_\_  
 AFE/PO No. 4601202

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____		
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____		
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____		
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____		
Tank Bottoms	_____	INTERNAL USE ONLY	_____		
E&P Contaminated Soil	<u>1</u>	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS Y - YARDS 115 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Operator Signature [Signature] DATE 08-20 DRIVER'S SIGNATURE [Signature]

## TRANSPORTER

Transporter's Name CLASSIC Driver's Name John A  
 Address P.O. Box 1545 Print Name \_\_\_\_\_  
Stephenville, TX 76401 Phone No. \_\_\_\_\_  
325-344-0745 Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below

SHIPMENT DATE 08-20 DRIVER'S SIGNATURE [Signature] DELIVERY DATE 08-20 DRIVER'S SIGNATURE [Signature]

## TRUCK TIME STAMP

IN: 2:29 PM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Red Bluff Facility/ STF-065 Phone No. 432-448-4239  
 Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO  
 Chloride \_\_\_\_\_ Conductivity (mMhos/cm) \_\_\_\_\_ pH \_\_\_\_\_  
 Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

Feet	Inches	BS&W/BBLS Received	BS&W (%)
1st Gauge		Free Water	
2nd Gauge		Total Received	
Received			

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT) D. Slack DATE 8-20-21 TITLE RCVP SIGNATURE [Signature]





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 230676
 Operator No. \_\_\_\_\_  
 Operator's Name WESTERN MIDSTREAM  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

 Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Russ DRAW 29 Feat Comp. #201  
 County EIDH  
 API No. 30-015-32106  
 Rig Name & No. 4601202  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

 WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

 QUANTITY B - BARRELS 7 YARDS 15 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Donna Dyer  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20

DATE

Donna Dyer  
 SIGNATURE

## TRANSPORTER

 Transporter's Name CLASSIC  
 Address P.O. Box 1545  
Stephenville, TX 76781  
 Phone No. 325-340-0745

 Driver's Name John R  
 Print Name \_\_\_\_\_  
 Phone No. \_\_\_\_\_  
 Truck No. 140

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20  
 SHIPMENT DATE

John R  
 DRIVER'S SIGNATURE

08-20  
 DELIVERY DATE

John R  
 DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN 1:29 pm OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DI
 Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770

 Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One)

(YES)

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

 Chemical Analysis (Mg/l) \_\_\_\_\_  
 Chloride \_\_\_\_\_

 Conductivity (mmhos/cm) 7 pH \_\_\_\_\_

## TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

 I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

John R  
 NAME (PRINT)

08-20-21  
 DATE

John R  
 TITLE

John R  
 SIGNATURE





(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Name Jeff DoerPhone No. 432-638-7693

## GENERATOR

NO.

230670

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well Name & No. Ross Draw 29 Fed Com #001

County Eddy

API No. 30-015-32106

Rig Name & No. NON-DRILLING

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

END DUMP

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LP

Address P.O. Box 1545  
Stephenville, TX 76401

Phone No. 325-340-0745

Driver's Name Joey Gray

Print Name Joey Gray

Phone No. 205-361-5000

Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 08-20-2021DRIVER'S SIGNATURE Joey GrayDELIVERY DATE 08-20-2021DRIVER'S SIGNATURE Joey Gray

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ Red Bluff Facility/ STF-065

Permit No. \_\_\_\_\_

Address 5053 US Highway 285, Orla, TX 79770

Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_ pH \_\_\_\_\_

## TANK BOTTOMS

1st Gauge	Feet	Inches	BS&W/BLS Received	BS&W (%)
2nd Gauge			Free Water	
Received			Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





(PLEASE PRINT)

\*REQUIRED INFORMATION\*

 Company Name Jeff Doer  
 Phone No. 432-638-7693

## GENERATOR

NO.

230671

 Operator No. \_\_\_\_\_  
 Operators Name Western Midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

 Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed Com #001  
 County Eddy  
 API No. 30-015-32106  
 Rig Name & No. non-drilling  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	<b>END DUMP</b>
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

 WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

 QUANTITY 15 B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

## TRANSPORTER

 Transporter's Name Classic Crane and Transport, LP  
 Address P.O. BOX 1545  
Stephenville, TX 76401  
 Phone No. 325 340-0745

 Driver's Name Joey Gray  
 Print Name Joey Gray  
 Phone No. 205 361-5020  
 Truck No. 141-52

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

 Site Name/ Permit No. Red Bluff Facility/ STF-065  
 Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Chloride

Conductivity

(mmhos/cm)

pH

Chemical Analysis (Mg/l)

## TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/B8LS Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff DoerPhone No. 409-321-0600

## GENERATOR

NO. 482781

Operator No. \_\_\_\_\_  
 Operators Name Western midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed/Com #001  
 County Edin  
 API No. 30-015-32106  
 Rig Name & No. NON Drilling  
 AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	<b>NON-INJECTABLE WATERS</b> Washout Water (Non-Injectable) _____ Completion Fluid/Flow back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ <b>INTERNAL USE ONLY</b> Truck Washout (exempt waste) _____
Oil Based Cuttings	_____	
Water Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	_____	
Gas Plant Waste	<u>✓</u>	<b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) <u>END DUMP</u>

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**  
 All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY: B - BARRELS \_\_\_\_\_ Y - YARDS 15 E - EACH \_\_\_\_\_

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Donal Domulyn  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

08-20-2021  
 DATE

Don D  
 SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport, LP  
 Address P.O. Box 1545  
Stephenville, TX 76401  
 Phone No. 325 340-0745

Driver's Name Joey Gray  
 Print Name Joey Gray  
 Phone No. 205 361-5020  
 Truck No. 14152

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

08-20-2021 Joey Gray  
 SHIPMENT DATE DRIVER'S SIGNATURE

08-20-2021 Joey Gray  
 DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP		DISPOSAL FACILITY	RECEIVING AREA
IN: <u>12:17</u>	OUT: _____	Name/No. <u>DI</u>	
Site Name/ Permit No. <u>Wishbone Facility/ RRC# STF-055</u>	Address <u>2499 FM 3033 Stanton, TX 79782</u>	Phone No. <u>432</u>	
NORM READINGS TAKEN? (Circle One) <u>YES</u> NO	Chemical Analysis (Mg/l) _____	If YES, was reading > 50 micro roentgens? (circle one) YES <u>7</u> NO	Conductivity (mmhos/cm) _____ pH

TANK BOTTOMS	
1st Gauge _____	BS&W/BBLs Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

m Steph  
 NAME (PRINT)

8-20-21  
 DATE

RCUR  
 TITLE

ms  
 SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company-Man Contact Information

Name Self Phone No. 432-638-7693

## GENERATOR

NO. 485128

Operator No. 1  
 Operators Name Western midstream  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
 Lease/Well Name & No. Ross Draw 29 Fed Com #01  
 County Eddy  
 API No. 30-05-32106  
 Rig Name & No. non-drilling  
 AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	END DUMPS
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## \*NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Dmar Daniquet  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
 DATE

Don  
 SIGNATURE

## TRANSPORTER

Transporter's Name Classic  
 Address P.O. Box 1545  
St. Phonsville TX 76401  
 Phone No. 325-340-0745

Driver's Name Ronnie Bray  
 Print Name Ronnie Bray  
 Phone No. 325-340-0745  
 Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21 Ronnie Bray  
 SHIPMENT DATE DRIVER'S SIGNATURE

8-23-21 Ronnie Bray  
 DELIVERY DATE DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 10:09 AM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. D1

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055  
 Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_

pH 7

## TANK BOTTOMS

1st Gauge \_\_\_\_\_ Feet \_\_\_\_\_ Inches \_\_\_\_\_  
 2nd Gauge \_\_\_\_\_  
 Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST  
(PLEASE PRINT) \*REQUIRED INFORMATION\*

Company Mail Contact Information

Name Sett Deal  
Phone No. 432-638-1093

Operator No. 1  
Operators Name Western midstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

## GENERATOR

NO. 230723

Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Ross Draw 29 Fed com 14  
County Eddy  
API No. 30-015-32106  
Rig Name & No. non-drilling  
AFE/PO No. \_\_\_\_\_

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	NON-INJECTABLE WATERS
Oil Based Cuttings	_____	
Water Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	<u>X</u>	INTERNAL USE ONLY
Gas Plant Waste	_____	
Truck Washout (exempt waste)		<u>W/O</u>
OTHER EXEMPT WASTES (type and generation process of the waste)		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount  
All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity, and reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY 15 B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

\_\_\_\_\_  
(PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
DATE

\_\_\_\_\_  
SIGNATURE

TRANSPORTER	
Transporter's Name <u>Classic</u>	Driver's Name <u>Ronnie Bray</u>
Address <u>P.O. Box 1543</u>	Print Name <u>Ronnie Bray</u>
<u>Stephenville, TX 76401</u>	Phone No. <u>325-340-0743</u>
Phone No. <u>325-340-0743</u>	Truck No. <u>162</u>

I hereby certify that the above named material(s) was/were picked up at the generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21 Ronnie Bray 8-23-21 Ronnie Bray  
SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: <u>12:50</u> PM OUT: _____	Name/No. <u>D1</u>	

Site Name/Permit No. <u>Red Bluff Facility/ STF-065</u>	Phone No. <u>432-448-4239</u>
Address <u>5053 US Highway 285, Orla, TX 79770</u>	
NORM READINGS TAKEN? (Circle One) YES NO	IF YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) _____	Conductivity (mmhos/cm) _____ pH _____

TANK BOTTOMS	
1st Gauge _____	BS&W/BBLS Received _____
2nd Gauge _____	Free Water _____
Received _____	Total Received _____

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name Jeff DyerPhone No. 409-638-1697

## GENERATOR

NO. 230724

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Ross Draw 29 Fed Com #001County EddyAPI No. 30-015-32106Rig Name & No. Non Drilling

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds \_\_\_\_\_  
 Oil Based Cuttings \_\_\_\_\_  
 Water Based Muds \_\_\_\_\_  
 Water Based Cuttings \_\_\_\_\_  
 Produced Formation Solids \_\_\_\_\_  
 Tank Bottoms \_\_\_\_\_  
 E&P Contaminated Soil ✓ \_\_\_\_\_  
 Gas Plant Waste \_\_\_\_\_

## NON-INJECTABLE WASTES

Washout Water (Non-Injectable) \_\_\_\_\_  
 Completion Fluid/Flow back (Non-Injectable) \_\_\_\_\_  
 Produced Water (Non-Injectable) \_\_\_\_\_  
 Gathering Line Water/Waste (Non-Injectable) \_\_\_\_\_  
 INTERNAL USE ONLY \_\_\_\_\_  
 Truck Washout (exempt waste) ✓ \_\_\_\_\_

## OTHER EXEMPT WASTES (type and generation process of the waste)

W/O

WASTE GENERATION PROCESS:

☐ DRILLING☐ COMPLETION☐ PRODUCTION☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY

B - BARRELS

15 Y - YARDS

E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Dmar Dominguez  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
 DATE

Dyer  
 SIGNATURE

## TRANSPORTER

Transporter's Name CLASSICAddress PO Box 15415Phone No. 325-340-0745Driver's Name Joe Franklin

Print Name \_\_\_\_\_

Phone No. 325-340-0745Truck No. 170

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21  
 SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21  
 DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 12:59 PROUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. P1

Site Name/

Red Bluff Facility/ STF-065

Permit No. \_\_\_\_\_

Phone No. 432-448-4239Address 5053 US Highway 285, Orla, TX 79770NORM READINGS TAKEN? (Circle One) YES NO

Chloride \_\_\_\_\_

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

Conductivity \_\_\_\_\_

(mmhos/cm) 7 pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

Feet

Inches

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&amp;W/BBLS Received \_\_\_\_\_

Free Water \_\_\_\_\_

Total Received \_\_\_\_\_

BS&amp;W (%) \_\_\_\_\_

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company-Man Contact Information

Name JEFF Dyer  
Phone No. 409-633-7683

## GENERATOR

NO. 477423Operator No. \_\_\_\_\_  
Operators Name Western Midstream  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_Permit/RRC No. \_\_\_\_\_  
Lease/Well Name & No. Ross 29 Fed Com #001  
County Felby  
API No. 85-1015-32106  
Rig Name & No. now-drilling  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	<b>NON-INJECTABLE WATERS</b> Washout Water (Non-Injectable) _____ Completion Fluid/Flow back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ <b>INTERNAL USE ONLY</b> Truck Washout (exempt waste) _____	<b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) <u>End Dump</u>
Oil Based Cuttings	_____		
Water Based Muds	_____		
Water Based Cuttings	_____		
Produced Formation Solids	_____		
Tank Bottoms	_____		
E&P Contaminated Soil	_____		
Gas Plant Waste	_____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity, and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY 15 B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)
Dmar Domineva  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21

DATE

Dmar Domineva  
 SIGNATURE

## TRANSPORTER

Transporter's Name CLASSIC  
Address P.O. Box 1545 STEPHENIA TX  
Phone No. 325-340-0745Driver's Name JOE FRANKLIN

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 178

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21

SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: 10:11 AM OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. DISite Name/Permit No. Wishbone Facility/ RRC# STF-055  
Address 2499 FM 3033 Stanton, TX 79782Phone No. 432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_

pH \_\_\_\_\_

## TANK BOTTOMS

Feet

Inches

1st Gauge \_\_\_\_\_  
2nd Gauge \_\_\_\_\_  
Received \_\_\_\_\_

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

msleah  
 NAME (PRINT)

8/23/21  
 DATE

RCUR  
 TITLE

ms  
 SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Map Contact Information

Name Jeff Dyer

Phone No. \_\_\_\_\_

## GENERATOR

NO. 481998

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well Name &amp; No. \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name &amp; No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

Ross Draw 29 Fed Com #001Eddy30-015-32106Non Drilling

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	<b>NON-INJECTABLE WATERS</b> Washout Water (Non-Injectable) _____ Completion Fluid/Flow back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ <b>INTERNAL USE ONLY</b> Truck Washout (exempt waste) _____
Oil Based Cuttings	_____	
Water Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	_____	
Gas Plant Waste	_____	
		<b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) <u>End dump</u>

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back.

QUANTITY B - BARRELS 15 Y - YARDS \_\_\_\_\_ E - EACH \_\_\_\_\_

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below) \_\_\_\_\_

\_\_\_\_\_  
 (PRINT) AUTHORIZED AGENTS SIGNATURE

8-23-21  
 DATE

\_\_\_\_\_  
 SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crane and Transport LP

Address PO Box 1545  
Stephenville TX 76401

Phone No. 325 340 0745

Driver's Name Paul Garcia

Print Name Paul Garcia

Phone No. 325 340 0745

Truck No. 134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21 SHIPMENT DATE 8-23-21 DELIVERY DATE

\_\_\_\_\_  
 DRIVER'S SIGNATURE

\_\_\_\_\_  
 DRIVER'S SIGNATURE

TRUCK TIME STAMP  
 IN: 1:00 pm OUT: \_\_\_\_\_

DISPOSAL FACILITY  
 Name/No. D1

Site Name/ Permit No. Wishbone Facility/ RRC# STF-055

Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One) YES NO

Chemical Analysis (Mg/l) \_\_\_\_\_

Chloride \_\_\_\_\_

Conductivity (mmhos/cm) \_\_\_\_\_

pH 7

TANK BOTTOMS

Feet	Inches	BS&W/BBLs Received	BS&W (%)
1st Gauge	_____	Free Water	_____
2nd Gauge	_____	Total Received	_____
Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

7/21/2023 DATE PCUR TITLE MS SIGNATURE





## TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT)

\*REQUIRED INFORMATION\*

Company Man Contact Information

Name

Phone No.

## GENERATOR

NO. 482343

Operator No. \_\_\_\_\_

Operators Name Western Midstream

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No.

Lease/Well

Name &amp; No.

County

API No.

Rig Name &amp; No.

AFE/PO No.

Ross Draw 29 Fed com #001Eddy30-015-32106Non-drilling

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)		
Oil Based Muds	_____	<b>NON-INJECTABLE WATERS:</b> Washout Water (Non-Injectable) _____ Completion Fluid/Flow back (Non-Injectable) _____ Produced Water (Non-Injectable) _____ Gathering Line Water/Waste (Non-Injectable) _____ <b>INTERNAL USE ONLY:</b> Truck Washout (exempt waste) _____
Oil Based Cuttings	_____	
Water Based Muds	_____	
Water Based Cuttings	_____	
Produced Formation Solids	_____	
Tank Bottoms	_____	
E&P Contaminated Soil	<input checked="" type="checkbox"/>	<b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) <u>End Dump</u>
Gas Plant Waste	_____	

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignitability, corrosivity and reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 15 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☒ RCRA EXEMPT:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information☐ RCRA Hazardous Waste Analysis☐ Other (Provide Description Below)

Ornel Domínguez

(PRINT) AUTHORIZED AGENT SIGNATURE

8-23-21

DATE

Paul Garcia

SIGNATURE

## TRANSPORTER

Transporter's Name Classic Crime and Transport LP

Address Do Box 1545

Stephenville TX 76401

Phone No. 325-340-0745

Driver's Name Paul Garcia

Print Name

Phone No. 325 340 0745

Truck No. 134-43

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

8-23-21

SHIPMENT DATE

DRIVER'S SIGNATURE

8-23-21

DELIVERY DATE

DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: <u>10:58 AM</u> OUT: _____		Name/No. _____

Site Name/ Wichbon Facility/RRC# 57P-055

Permit No. \_\_\_\_\_

Address 2499 FM 3033 Stanton, TX 79782

Phone No. 432

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

Conductivity

(mmhos/cm)

pH

Chemical Analysis (Mg/l) \_\_\_\_\_

## TANK BOTTOMS

1st Gauge \_\_\_\_\_

2nd Gauge \_\_\_\_\_

Received \_\_\_\_\_

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why?

Wichbon 8/23/21

NAME (PRINT) DATE

DATE

TITLE

SIGNATURE





# Appendix C

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## Site Characterization



## **Site Characterization Summary**

### **Site Information:**

Western Midstream Red Hills Phase 2 & 3  
Eddy County, New Mexico  
T26S, R29E, Section 23, Unit M  
(32.005413°, -103.943831°)  
599757.45 m E, 3541523.05 m N

### **Site Characterization:**

- Medium Karst
- No significant water features within specified distances
- Groundwater 53.46' BGS 1.21 Miles Northwest. (USGS, Section 26, 2021 Sample)
- Groundwater 67' BGS 1.6 Miles from the site. (NMOSE, Section 22, 2022 sample)
- Groundwater 58' BGS 1.82 Miles Southwest (Texas Well Report #356414)
- Groundwater 81' BGS 1.82 Miles Southwest (Texas Well Report #356411)
- 900'+ from HUC 12

### **RRALs:**

- 600 mg/kg Chlorides
- 100 mg/kg Total TPH
- 10 mg/kg Benzene
- 50 mg/kg Total BTEX

### **Explanation:**

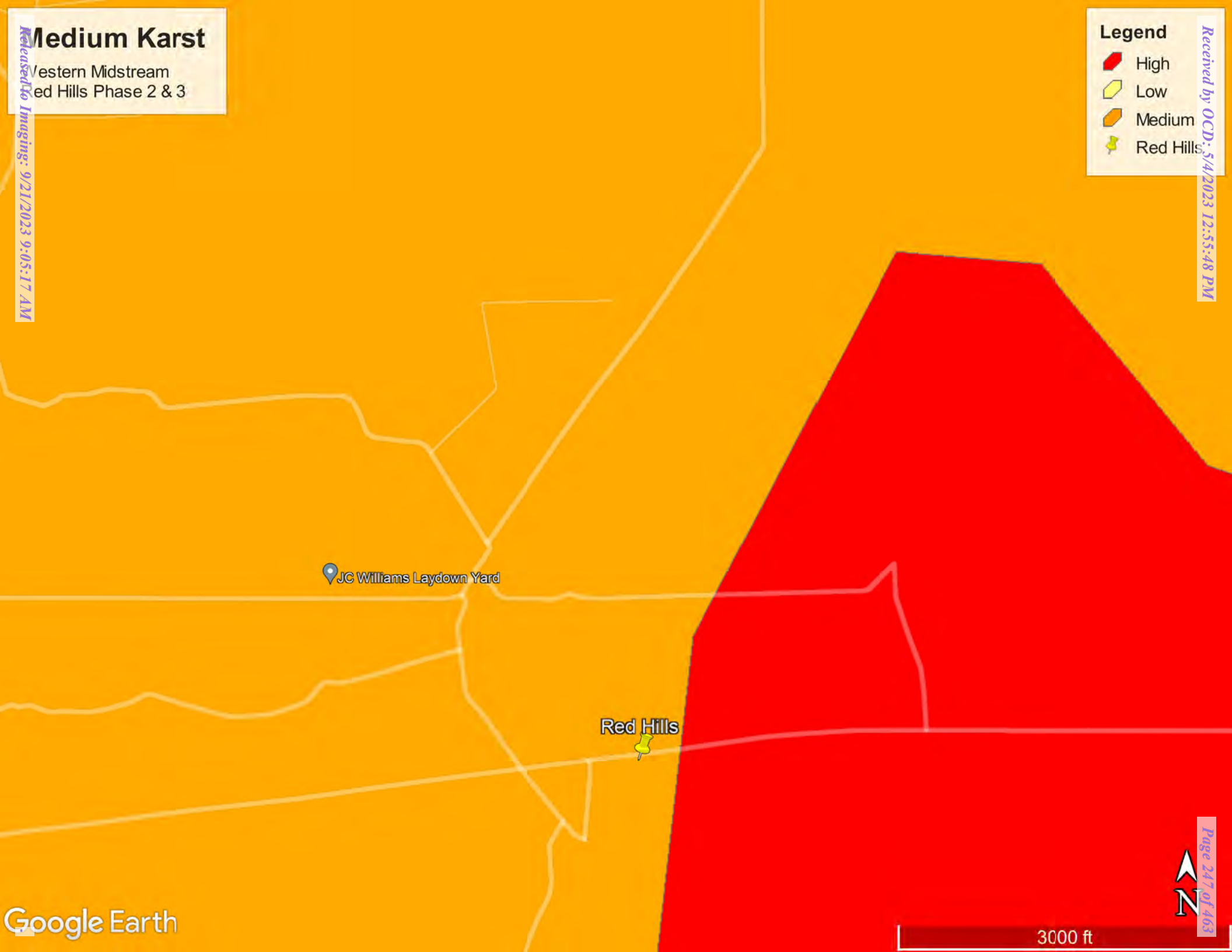
Due to inadequate groundwater information (distance further than ½ mile/data dated >25 years), Most stringent RRALs will be followed unless groundwater determination bore is drilled, and no water is found at depths of at least 55' BGS or greater.



**Medium Karst**  
Western Midstream  
ed Hills Phase 2 & 3

**Legend**

- High
- Low
- Medium
- Red Hills

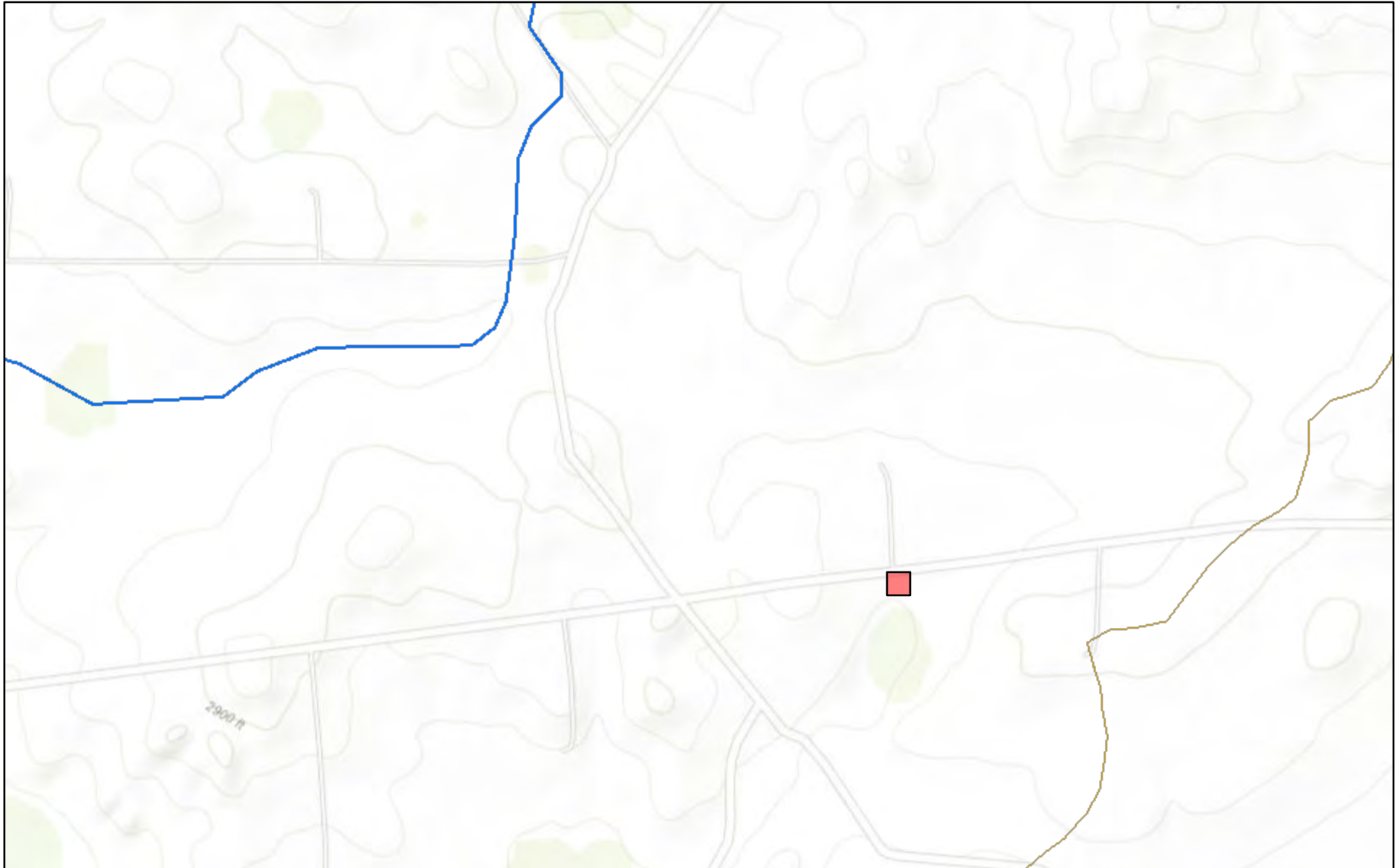


Released to Imaging: 9/21/2023 9:05:17 AM

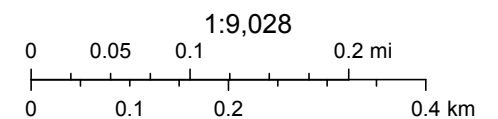
Received by OCD: 5/4/2023 12:55:48 PM



## New Mexico NFHL Data



September 23, 2022

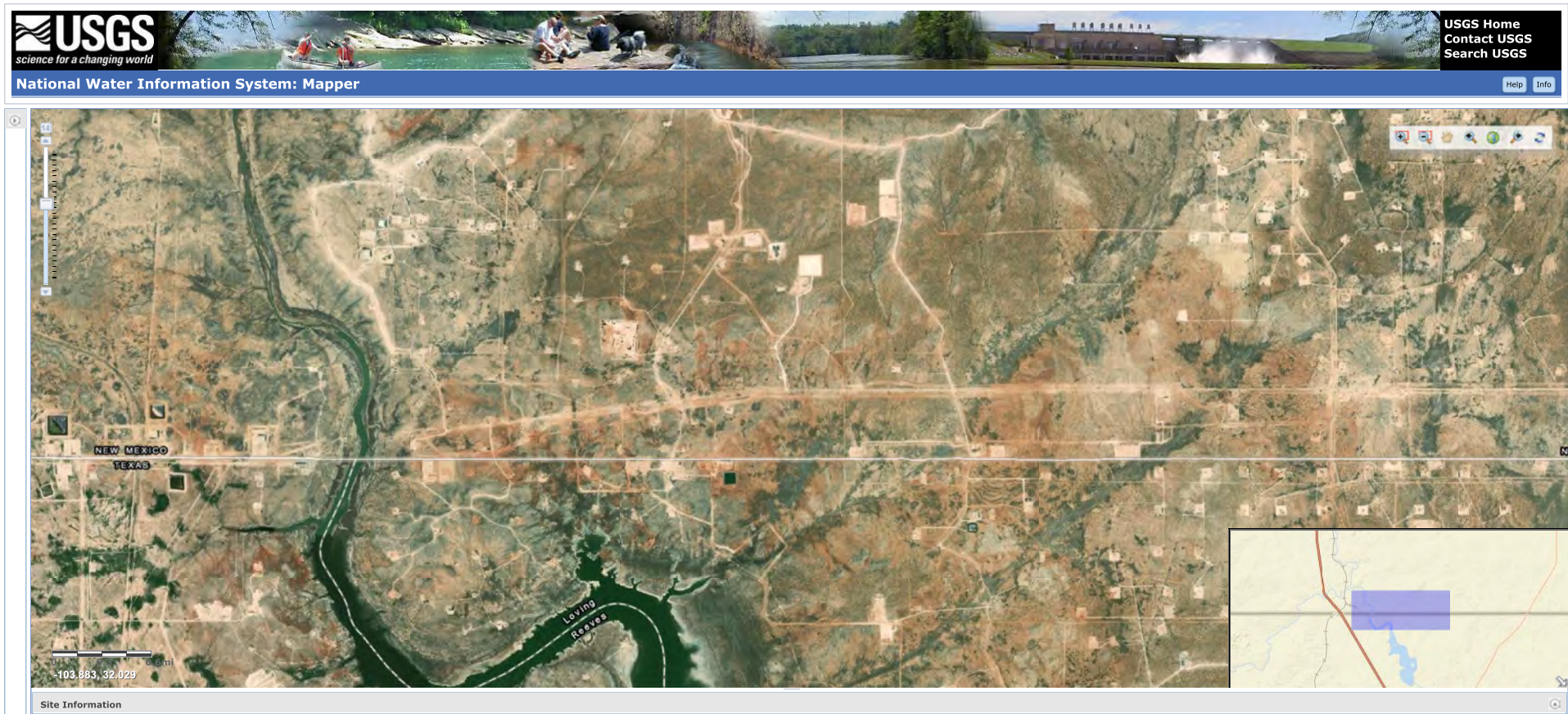


FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

[nmflood.org](http://nmflood.org) is made possible through a collaboration with NMDHSEM,

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National Water Information System: Web Interface


USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 320106103555301

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

USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico  
Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83  
Land-surface elevation 2,883.00 feet above NGVD29  
The depth of the well is 140 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-01-26		D	62610		2828.70	NGVD29	1	Z			A
1983-01-26		D	62611		2830.22	NAVD88	1	Z			A
1983-01-26		D	72019	54.30			1	Z			A
1987-10-14		D	62610		2847.71	NGVD29	1	Z			A
1987-10-14		D	62611		2849.23	NAVD88	1	Z			A
1987-10-14		D	72019	35.29			1	Z			A
1992-11-04		D	62610		2838.94	NGVD29	1	S			A
1992-11-04		D	62611		2840.46	NAVD88	1	S			A
1992-11-04		D	72019	44.06			1	S			A
1998-01-28		D	62610		2829.99	NGVD29	1	S			A
1998-01-28		D	62611		2831.51	NAVD88	1	S			A
1998-01-28		D	72019	53.01			1	S			A
2003-01-27		D	62610		2827.07	NGVD29	1	S			A
2003-01-27		D	62611		2828.59	NAVD88	1	S			A
2003-01-27		D	72019	55.93			1	S			A
2013-01-09	19:00 UTC	m	62610		2825.19	NGVD29	1	S			A
2013-01-09	19:00 UTC	m	62611		2826.71	NAVD88	1	S			A
2013-01-09	19:00 UTC	m	72019	57.81			1	S			A
2021-02-24	21:10 UTC	m	62610		2829.54	NGVD29	1	S			A
2021-02-24	21:10 UTC	m	62611		2831.06	NAVD88	1	S			A
2021-02-24	21:10 UTC	m	72019	53.46			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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



Section	Code	Description
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

- Questions about sites/data?
- Feedback on this web site
- Automated retrievals
- Help
- Data Tips
- Explanation of terms
- Subscribe for system changes
- News





# 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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02038</a>	C		ED	3	2	4	26	26S	29E	599204	3541992*	747	200		
<a href="#">C 04561 POD1</a>	CUB		ED	4	3	3	24	26S	29E	599924	3543208	1685			
<a href="#">C 04653 POD6</a>	CUB		ED	4	4	4	22	26S	29E	597782	3543171	2595	74	67	7
<a href="#">C 04653 POD5</a>	CUB		ED	4	4	4	22	26S	29E	597784	3543186	2603	72	67	5
<a href="#">C 01354 X-3</a>	CUB		ED	2	1	3	23	26S	29E	598323	3543837	2736	170		
<a href="#">C 03605 POD1</a>	CUB		ED	4	2	3	27	26S	29E	596990	3541983	2837	45	0	45

Average Depth to Water: **44 feet**

Minimum Depth: **0 feet**

Maximum Depth: **67 feet**

Record Count: 6

### Basin/County Search:

County: Eddy

### UTMNAD83 Radius Search (in meters):

Easting (X): 599790.55

Northing (Y): 3541527.933

Radius: 3200

\*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.

3/23/23 7:40 AM

Page 1 of 1


WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	02038	3	2	4	26	26S	29E	599204	3541992*		
<hr/>											
Driller License:		421		Driller Company:			GLENN'S WATER WELL SERVICE				
Driller Name:		CORKY GLENN									
Drill Start Date:		09/01/1982		Drill Finish Date:			09/05/1982		Plug Date:		
Log File Date:		09/16/1982		PCW Rev Date:						Source: Shallow	
Pump Type:					Pipe Discharge Size:			Estimated Yield:			
Casing Size:		6.63		Depth Well:			200 feet		Depth Water:		
<hr/>											
Casing Perforations:					Top	Bottom					
					100	140					

\*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.

3/23/23 7:50 AM


POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04653 POD5	4	4	4	22	26S	29E	597784	3543186 
<hr/>									
Driller License:	1249	Driller Company:		ATKINS ENGINEERING ASSOC. INC.					
Driller Name:	JACKIE D ATKINS								
Drill Start Date:	07/26/2022	Drill Finish Date:		07/26/2022		Plug Date:			
Log File Date:	08/18/2022	PCW Rev Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		72 feet		Depth Water:		67 feet	
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				64	70	Limestone/Dolomite/Chalk			
				70	72	Sandstone/Gravel/Conglomerate			

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.

3/23/23 8:04 AM


POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
NA	C 04653 POD6	4	4	4	22	26S	29E	597782	3543171		
<hr/>											
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.					
Driller Name:		JACKIE D ATKINS									
<hr/>											
Drill Start Date: 07/25/2022		Drill Finish Date:				07/25/2022		Plug Date:		07/26/2022	
Log File Date: 08/18/2022		PCW Rcv Date:						Source:		Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield:			
Casing Size:		Depth Well:				74 feet		Depth Water:		67 feet	
<hr/>											
Water Bearing Stratifications:					Top	Bottom	Description				
					64	74	Limestone/Dolomite/Chalk				
<hr/>											

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.

3/23/23 8:05 AM


POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
C	03605 POD1	4	2	3	27	26S	29E	596990	3541983				
<hr/>													
Driller License:	1249	Driller Company:				ATKINS ENGINEERING ASSOC. INC.							
Driller Name:	ATKINS, JACKIE D. (LD)												
Drill Start Date:	01/23/2013	Drill Finish Date:				01/23/2013		Plug Date:				01/28/2013	
Log File Date:	02/26/2013	PCW Rcv Date:						Source:					
Pump Type:		Pipe Discharge Size:						Estimated Yield:					
Casing Size:		Depth Well:				45 feet		Depth Water:		0 feet			
<hr/>													

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.

3/23/23 8:11 AM

POINT OF DIVERSION SUMMARY



## STATE OF TEXAS WELL REPORT for Tracking #356411

Owner: <b>BHP BILLITON PETROLEUM</b>	Owner Well #: <b>JOHNSON#4-1</b>
Address: <b>115 W. 3RD ST, STE 208 PECOS, TX 79772</b>	Grid #: <b>46-01-1</b>
Well Location: <b>13 mi N of ORLA, 3.2 mi E of HWY 285 &amp; .6 mi S of N.MEX line ORLA, TX 79770</b>	Latitude: <b>31° 59' 28" N</b>
	Longitude: <b>103° 58' 11" W</b>
Well County: <b>Loving</b>	Elevation: <b>2883 ft. above sea level</b>
Type of Work: <b>New Well</b>	
Proposed Use: <b>Rig Supply</b>	

Drilling Start Date: **2/28/2014**      Drilling End Date: **2/28/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>255</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed; CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>15</b>	<b>255</b>	<b>Gravel</b>	<b>1/4"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>15</b>	<b>4 CEMENT</b>

Seal Method: **HAND**

Distance to Property Line (ft.): **5000'+**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **OWNER INFO**

Surface Completion: **Surface Sleeve Installed**

Water Level: **81 ft. below land surface on 2014-02-28**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 40+ GPM**



Water Quality:	Strata Depth (ft.)	Water Type
	<b>200-240</b>	<b>SALTY</b>

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **SKINNER'S DRILLING**  
**P.O. BOX 544**  
**ALPINE, TX 79831**

Driller Name: **WALTER SKINNER**License Number: **2838**Apprentice Name: **JOHN SKINNER**Apprentice Number: **58577**Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
<b>0</b>	<b>3</b>	<b>BROWN TOPSOIL</b>
<b>3</b>	<b>35</b>	<b>BROWN CLAY</b>
<b>35</b>	<b>50</b>	<b>ORANGE CLAY</b>
<b>50</b>	<b>65</b>	<b>LIMESTONE &amp; CLAY</b>
<b>65</b>	<b>75</b>	<b>RED SANDSTONE</b>
<b>75</b>	<b>100</b>	<b>GRAY LIMESTONE</b>
<b>100</b>	<b>200</b>	<b>RED SANDSTONE</b>
<b>200</b>	<b>255</b>	<b>CRYSTAL FORMATIONS</b>

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
<b>8 N STEEL 1.5A 7</b>			
<b>6 N PVC SCH 40 0 195</b>			
<b>6 N PVC SCH 40 SLOT. 195 255 .035</b>			

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 334-5540**



## STATE OF TEXAS WELL REPORT for Tracking #356414

Owner: <b>BHP BILLITON PETROLEUM</b>	Owner Well #: <b>JOHNSON#4-2</b>
Address: <b>115 W 3RD ST, STE 208 PECOS, TX 79772</b>	Grid #: <b>46-01-1</b>
Well Location: <b>13.5 mi N of ORLA, 3.3 mi E of HWY 285, &amp; .1 mi S of N MEX line ORLA, TX 79770</b>	Latitude: <b>31° 59' 54" N</b>
	Longitude: <b>103° 58' 25" W</b>
Well County: <b>Loving</b>	Elevation: <b>2866 ft. above sea level</b>
Type of Work: <b>New Well</b>	
Proposed Use: <b>Rig Supply</b>	

Drilling Start Date: **3/4/2014**      Drilling End Date: **3/5/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.875</b>	<b>0</b>	<b>303</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed; CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>20</b>	<b>303</b>	<b>Gravel</b>	<b>1/4"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>5 CEMENT</b>

Seal Method: **HAND**

Distance to Property Line (ft.): **5000+**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **OWNER INFO**

Surface Completion: **Surface Sleeve Installed**

Water Level: **58 ft. below land surface on 2014-03-05**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 30+ GPM**



Water Quality:	Strata Depth (ft.)	Water Type
	<b>70-100 &amp; 268-280</b>	<b>SALTY</b>

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **SKINNER'S DRILLING**  
**P.O. BOX 544**  
**ALPINE, TX 79831**

Driller Name: **WALTER SKINNER**License Number: **2838**Apprentice Name: **JOHN SKINNER**Apprentice Number: **58577**Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
<b>0</b>	<b>4</b>	<b>TOPSOIL</b>
<b>4</b>	<b>25</b>	<b>LIGHT BROWN CLAY</b>
<b>25</b>	<b>55</b>	<b>RED CLAY</b>
<b>55</b>	<b>115</b>	<b>CRYSTAL FORMATIONS</b>
<b>115</b>	<b>175</b>	<b>BROWN CLAY</b>
<b>175</b>	<b>185</b>	<b>CRYSTAL FORMATIONS</b>
<b>185</b>	<b>270</b>	<b>RED CLAY &amp; SANDSTONE</b>
<b>270</b>	<b>303</b>	<b>CRYSTAL FORMATIONS</b>

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
<b>8 N STEEL 1.5A 8</b>			
<b>6 N PVC SCH 40 0 60</b>			
<b>6 N PVC SCH 40 SLOT. 60 100 .035</b>			
<b>6 N PVC SCH 40 100 263</b>			
<b>6 N PVC SCH 40 SLOT. 263 283 .035</b>			
<b>6 N PVC SCH 40 283 303</b>			

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation**  
**P.O. Box 12157**  
**Austin, TX 78711**  
**(512) 334-5540**





## Appendix D

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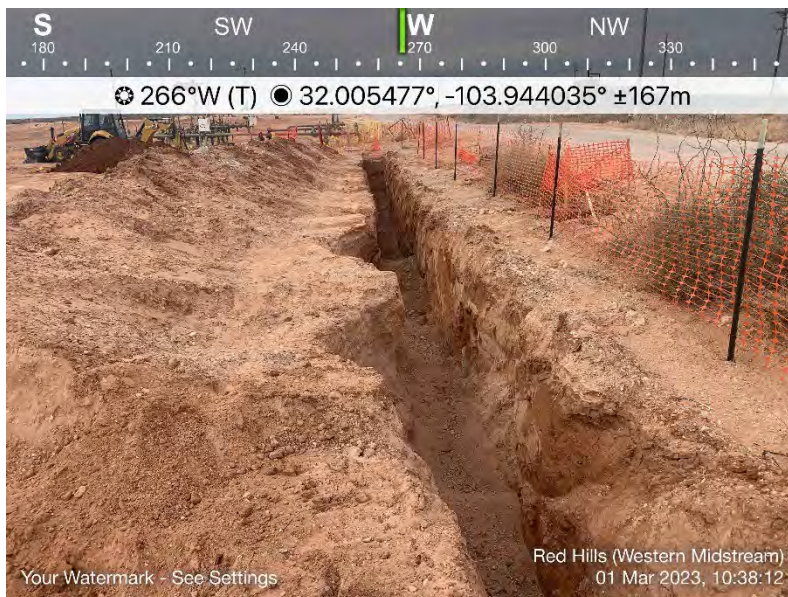
### Photographic Documentation



**Photographic Log  
Red Hills Phase 2 and Phase 3  
Western Midstream**


**Photo: 1****Description:**

View of Remediation Activities.

**Photo: 2****Description:**

View of Remediation Activities.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	
3/1/2023, 3/22/2023	212C-MD-02893	Gabe Huerta	Page 1 of 4	Western Midstream	Red Hill Phase 2 and Phase 3	



**Photographic Log  
Red Hills Phase 2 and Phase 3  
Western Midstream**


**Photo: 3****Description:**

View of Remediation Activities.

**Photo: 4****Description:**

View of Remediation Activities.



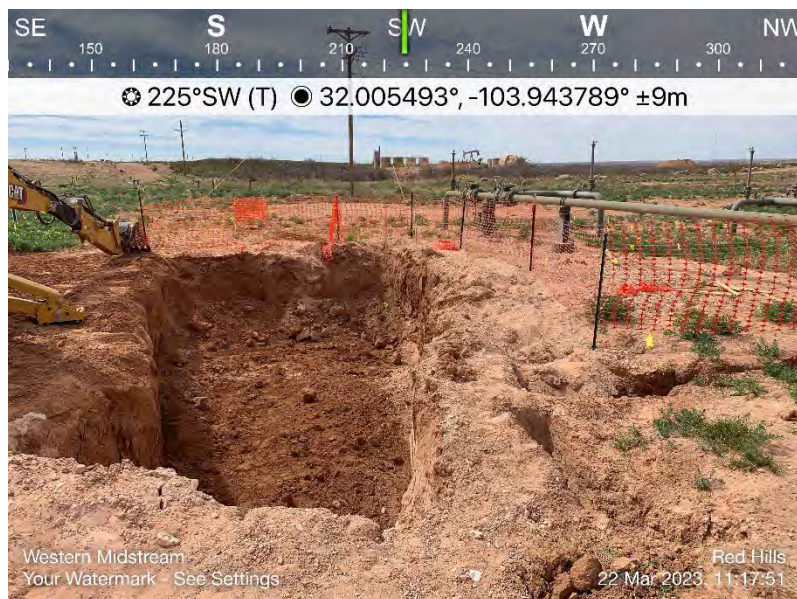
Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	
3/1/2023, 3/22/2023	212C-MD-02893	Gabe Huerta	Page 2 of 4	Western Midstream	Red Hill Phase 2 and Phase 3	



# Photographic Log Red Hills Phase 2 and Phase 3 Western Midstream


**Photo: 5****Description:**

View of Remediation Activities – South side of the Site facing north.

**Photo: 6****Description:**

View of Remediation Activities – South side of the Site facing northeast.



Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	 TETRA TECH
3/1/2023, 3/22/2023	212C-MD-02893	Gabe Huerta	Page 3 of 4	Western Midstream	Red Hill Phase 2 and Phase 3	



Photographic Log  
Red Hills Phase 2 and Phase 3  
Western Midstream

**Photo: 7**

**Description:**

Star Windmill owned by Ricky Pearce.

Western Midstream  
Your Watermark - See Settings

Red Hills  
22 Mar 2023, 11:18:28


**Photo: 8**

**Description:**

Water well gauging activities.

Western Midstream  
Your Watermark - See Settings

Red Hills  
22 Mar 2023, 11:18:44

Date Taken:	Job No.	Photographs Taken By:	Page No.	Client:	Site Name:	
3/1/2023, 3/22/2023	212C-MD-02893	Gabe Huerta	Page 4 of 4	Western Midstream	Red Hill Phase 2 and Phase 3	





# Appendix E

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Analytical Laboratory Reports





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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October 07, 2022

RUSSEL WEIGAND

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS

Enclosed are the results of analyses for samples received by the laboratory on 10/03/22 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 3 (3-3.5') (H224586-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 3 (4-4.5') (H224586-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 2 (4-4.5') (H224586-03)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	26.4	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 3 (3-3.5') (H224586-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	10/05/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	117	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	15.9	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 3 (4-4.5') (H224586-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	10/05/2022	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	240	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	35.5	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 2 (4-4.5') (H224586-06)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (4-4.5') (H224586-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (3-3.5') (H224586-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	210	105	200	6.55	
DRO >C10-C28*	24.5	10.0	10/05/2022	ND	214	107	200	4.53	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 3 (4-4.5') (H224586-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: CS - 1 (6') (H224586-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 2 (3-3.5') (H224586-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.70	85.0	2.00	12.1		
Toluene*	<0.050	0.050	10/06/2022	ND	1.73	86.7	2.00	8.54		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.71	85.6	2.00	8.85		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.24	87.3	6.00	8.06		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 74.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.2 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: CS - 3 (2-2.5') (H224586-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.9 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: CS - 4 (4') (H224586-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: CS - 5 (6') (H224586-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 1 (0-1') (H224586-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 1 (1-1.5') (H224586-16)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 1 (2-2.5') (H224586-17)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 99.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 1 (3-3.5') (H224586-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 1 (4-4.5') (H224586-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 1 (5-5.5') (H224586-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 1 (6-6.5') (H224586-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 2 (0-1') (H224586-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	13.8	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 2 (1-1.5') (H224586-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	25.7	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 2 (2-2.5') (H224586-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 2 (3-3.5') (H224586-25)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	13.1	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 3 (0-1') (H224586-26)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	230	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	55.6	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 3 (1-1.5') (H224586-27)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	128	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	29.2	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 3 (2-2.5') (H224586-28)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	92.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	17.2	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 4 (0-1') (H224586-29)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 4 (1-1.5') (H224586-30)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1	
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 4 (2-2.5') (H224586-31)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	13.1		
Toluene*	<0.050	0.050	10/07/2022	ND	2.03	101	2.00	11.8		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.02	101	2.00	12.6		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.15	103	6.00	12.6		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 4 (3-3.5') (H224586-32)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 4 (4-4.5') (H224586-33)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (0-1') (H224586-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (1-1.5') (H224586-35)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (2-2.5') (H224586-36)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: NSW - 5 (3-3.5') (H224586-37)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110		
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30		
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND						

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (4-4.5') (H224586-38)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	0.110	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	214	107	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (5-5.5') (H224586-39)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NSW - 5 (6-6.5') (H224586-40)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 1 (0-1') (H224586-41)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 1 (1-1.5') (H224586-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/06/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 1 (2-2.5') (H224586-43)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	12.9	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 1 (3-3.5') (H224586-44)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/05/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 1 (4-4.5') (H224586-45)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/04/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.9 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 1 (5-5.5') (H224586-46)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409	
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/05/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 1 (6-6.5') (H224586-47)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409	
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00	
Total BTX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/05/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 2 (0-1') (H224586-48)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409	
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/05/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 78.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 2 (1-1.5') (H224586-49)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409	
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00	
Total BTX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/05/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	10.9	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 2 (2-2.5') (H224586-50)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/05/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	216	108	200	2.31	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	217	108	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 2 (3-3.5') (H224586-51)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.01	101	2.00	0.409		
Toluene*	<0.050	0.050	10/07/2022	ND	2.13	106	2.00	1.69		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	0.965		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	5.99	99.8	6.00	1.00		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/05/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	213	107	200	3.88	
DRO >C10-C28*	17.8	10.0	10/05/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 69.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.6 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 3 (0-1') (H224586-52)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/05/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.5 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 3 (1-1.5') (H224586-53)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/05/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.3 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 3 (2-2.5') (H224586-54)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 69.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.4 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 4 (0-1') (H224586-55)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/05/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 4 (1-1.5') (H224586-56)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 67.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 4 (2-2.5') (H224586-57)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 67.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.9 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 4 (3-3.5') (H224586-58)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 64.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 4 (4-4.5') (H224586-59)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 5 (0-1') (H224586-60)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/06/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 59.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 5 (1-1.5') (H224586-61)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.0 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 5 (2-2.5') (H224586-62)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 64.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 5 (3-3.5') (H224586-63)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 63.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 71.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 5 (4-4.5') (H224586-64)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 65.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SSW - 5 (5-5.5') (H224586-65)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 65.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SSW - 5 (6-6.5') (H224586-66)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74	
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	213	107	200	3.88	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	199	99.4	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 65.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (0-1') (H224586-67)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: ESW - 1 (1-1.5') (H224586-68)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEX	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37		
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28		
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND						

Surrogate: 1-Chlorooctane 92.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (2-2.5') (H224586-69)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (3-3.5') (H224586-70)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (4-4.5') (H224586-71)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.05	103	2.00	1.74		
Toluene*	<0.050	0.050	10/07/2022	ND	2.20	110	2.00	1.91		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.01	100	2.00	1.58		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.06	101	6.00	1.62		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/06/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (5-5.5') (H224586-72)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/06/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/06/2022	ND	6.09	102	6.00	1.44	
Total BTEx	<0.300	0.300	10/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/06/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: ESW - 1 (6-6.5') (H224586-73)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711		
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/06/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (0-1') (H224586-74)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711		
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (1-1.5') (H224586-75)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/06/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (2-2.5') (H224586-76)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/06/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	28.8	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	RED HILLS	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: WSW - 1 (3-3.5') (H224586-77)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/06/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	25.6	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (4-4.5') (H224586-78)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44	
Total BTEx	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/06/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (5-5.5') (H224586-79)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711	
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14	
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41	
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44	
Total BTEX	<0.300	0.300	10/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/06/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 RUSSEL WEIGAND  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 10/03/2022  
 Reported: 10/07/2022  
 Project Name: RED HILLS  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WSW - 1 (6-6.5') (H224586-80)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2022	ND	2.10	105	2.00	0.711		
Toluene*	<0.050	0.050	10/07/2022	ND	2.06	103	2.00	1.14		
Ethylbenzene*	<0.050	0.050	10/07/2022	ND	2.00	99.8	2.00	1.41		
Total Xylenes*	<0.150	0.150	10/07/2022	ND	6.09	102	6.00	1.44		
Total BTEx	<0.300	0.300	10/07/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/06/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/06/2022	ND	228	114	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	229	114	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.5 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name:	Western Midstream	Site Manager:	Russ Weigand
Project Name:	Red Hills		
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-02853
Invoice to:	Tetra Tech, Inc.		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Peyton Oliver
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None			
										YEAR 2020		
1	SSW-3 (3-3.5')	10/3/2022		X				X				
2	SSW-3 (4-4.5')	10/3/2022		X				X				
3	NSW-2 (4-4.5')	10/3/2022		X				X				
4	NSW-3 (3-3.5')	10/3/2022		X				X				
5	NSW-3 (4-4.5')	10/3/2022		X				X				
6	SSW-2 (4-4.5')	10/3/2022		X				X				
7	CS-2 (4-4.5')	10/3/2022		X				X				
8	CS-3 (3-3.5')	10/3/2022		X				X				
9	CS-3 (4-4.5')	10/3/2022		X				X				
		10/3/2022		X				X				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Peyton Oliver</i>	10/3/22	1400	<i>Peyton Oliver</i>	10/3/22	1400
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

Sample Temperature	25.6°C
25.6°C	
25.0°C #113	

(Circle) HAND DELIVERED	FEDEX	UPS	Tracking #

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	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

801 W. Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: Western Midstream		Site Manager: Russ Weigand	
Project Name: Red Hills		Project #: 212C-MD-02853	
Project Location: Eddy County, New Mexico (county, state)		Invoice to: Tetra Tech, Inc.	
Receiving Laboratory: Cardinal Labs		Sampler Signature: Peyton Oliver	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None			
										YEAR 2020		
17	NSW-1 (2-2.5')	10/3/2022		X				X				
18	NSW-1 (3-3.5')	10/3/2022		X				X				
19	NSW-1 (4-4.5')	10/3/2022		X				X				
20	NSW-1 (5-5.5')	10/3/2022		X				X				
21	NSW-1 (6-6.5')	10/3/2022		X				X				
22	NSW-2 (0-1')	10/3/2022		X				X				
23	NSW-2 (1-1.5')	10/3/2022		X				X				
24	NSW-2 (2-2.5')	10/3/2022		X				X				
25	NSW-2 (3-3.5')	10/3/2022		X				X				

Relinquished by: <i>[Signature]</i>	Date: 10/3/22	Time: 1400	Received by: <i>[Signature]</i>	Date: 10-3-22	Time: 1400
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

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.)

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Circle HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W. Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 982-4559  
Fax (432) 982-3946

Client Name:

Western Midstream

Site Manager:

Russ Weigand

Project Name:

Red Hills

Project Location:

Eddy County, New Mexico

Project #:

212C-MD-02853

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Peyton Oliver

Comments:

SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

4224586

SAMPLING

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

None

# CONTAINERS

FILTERED (Y/N)

YEAR 2020

MATRIX

PRESERVATIVE METHOD

DATE



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: Western Midstream		Site Manager: Russ Weigand	
Project Name: Red Hills		Project #: 212C-MD-02853	
Project Location: Eddy County, New Mexico		Project #: 212C-MD-02853	
Invoice to: Tetra Tech, Inc.		Sampler Signature: Peyton Oliver	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None			
										YEAR		
34	NSW-5 (0-1')	10/3/2022		X						X		
35	NSW-5 (1-1.5')	10/3/2022		X						X		
36	NSW-5 (2-2.5')	10/3/2022		X						X		
37	NSW-5 (3-3.5')	10/3/2022		X						X		
38	NSW-5 (4-4.5')	10/3/2022		X						X		
39	NSW-5 (5-5.5')	10/3/2022		X						X		
40	NSW-5 (6-6.5')	10/3/2022		X						X		
41	SSW-1 (0-1')	10/3/2022		X						X		
42	SSW-1 (1-1.5')	10/3/2022		X						X		
43	SSW-1 (2-2.5')	10/3/2022		X						X		

Relinquished by: [Signature]	Date: 10/3/22	Time: 1400	Received by: [Signature]	Date: 10/3/22	Time: 1400
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

Sample Temperature	25.6°C
25.0°C	
25.0°C	

(Circle) HAND DELIVERED FEDEX UPS Tracking #

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100  
Madison, Texas 79705  
Tel (432) 862-4556  
Fax (432) 862-3946

Client Name:	Western Midstream	Site Manager:	Russ Weigand
Project Name:	Red Hills		
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-02853
Invoice to:	Tetra Tech, Inc.		
Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Peyton Oliver
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None		
44	SSW-1 (3-3.5')	10/3/2022		X				X			
45	SSW-1 (4-4.5')	10/3/2022		X				X			
46	SSW-1 (5-5.5')	10/3/2022		X				X			
47	SSW-1 (6-6.5')	10/3/2022		X				X			
48	SSW-2 (0-1')	10/3/2022		X				X			
49	SSW-2 (1-1.5')	10/3/2022		X				X			
50	SSW-2 (2-2.5')	10/3/2022		X				X			
51	SSW-2 (3-3.5')	10/3/2022		X				X			
52	SSW-3 (0-1')	10/3/2022		X				X			

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Jeffrey L. -</i>	10/3/22	1406	<i>James M. -</i>	10-3-22	1400
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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ANALYSIS REQUEST  
(Circle or Specify Method No.)

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

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	



## Page 6 of 8



Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Russ Weigand

212C-MD-02853

Peyton Oliver

RO - MRO)

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

[illegible]

REMARKS:

☐

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Page 7 of 8

901W Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Russ Weigano

Project #:

212C-MD-02853

Tetra Tech, Inc.

**Sampler Signature:**

**Cardinal Labs**

Peyton Oliver

Comments:

### SAMPLE IDENTIFICATION

H224586 LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				YEAR 2020	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE			None																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
61	SSW-5 (1-1.5')	10/3/2022		X						X				X		BTEX 8021B	BT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by:

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Date: Time:

Received by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: Time:

Received by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_

LAB USE ONLY

☒

STANDARD

Sample Temperature

7

1. *Journal of the American Medical Association*, 2000; 283: 2689-2696.

☐ Rush Charges Authorized

☐ Special Report Limits or IRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking

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ANALYSIS REQUEST  
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Page 90 of 91



### Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 8 of 8

Page 91 of 91

[illegible]





Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Faught  
Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Generated 3/9/2023 1:18:38 PM

## JOB DESCRIPTION

Red Hills Phase 2 and 3  
SDG NUMBER Eddy Co, NM

## JOB NUMBER

880-25357-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701



# Eurofins Midland

## Job Notes

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

## Authorization



Generated  
3/9/2023 1:18:38 PM

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



Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Laboratory Job ID: 880-25357-1  
SDG: Eddy Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	26
QC Sample Results . . . . .	28
QC Association Summary . . . . .	37
Lab Chronicle . . . . .	43
Certification Summary . . . . .	50
Method Summary . . . . .	51
Sample Summary . . . . .	52
Chain of Custody . . . . .	53
Receipt Checklists . . . . .	56

1

2

3

4

5

6

7

8

9

10

11

12

13

14



## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Qualifiers

## GC/MS VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

**Job ID: 880-25357-1**

**Laboratory: Eurofins Midland**

## Narrative

**Job Narrative**  
**880-25357-1**

**Receipt**

The samples were received on 3/2/2023 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

**Receipt Exceptions**

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

**GC/MS VOA**

Method 8260D: Sample received in a bulk jar.ESW-1-2 (0-6.5') (880-25357-1), SSW-5-2 (0-6.5') (880-25357-2), SW-1 (0-6.5') (880-25357-3), SW-2 (0-6.5') (880-25357-4), SW-3 (0-6.5') (880-25357-5), SW-4 (0-6.5') (880-25357-6), SW-5 (0-6.5') (880-25357-7), SW-6 (0-6.5') (880-25357-8), SW-7 (0-6.5') (880-25357-9), SW-8 (0-6.5') (880-25357-10), SW-9 (0-6.5') (880-25357-11), SW-10 (0-6.5') (880-25357-12), SW-11 (0-6.5') (880-25357-13), SW-12 (0-6.5') (880-25357-14), SW-13 (0-6.5') (880-25357-15), SW-14 (0-6.5') (880-25357-16), SW-15 (0-6.5') (880-25357-17), SW-16 (0-6.5') (880-25357-18), BTM-1 (6.5') (880-25357-19) and (880-25357-A-1-J MS)

Method 8260D: The following sample was diluted due to the nature of the sample matrix: (860-44135-E-8-A MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a 40 ml methanol vial.

Method 8260D: Sample received in a bulk jar.BTM-2 (6.5') (880-25357-20), BTM-3 (6.5') (880-25357-21), BTM-4 (6.5') (880-25357-22) and BTM-5 (6.5') (880-25357-23)

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 laboratory control sample (LCS) associated with preparation batch 880-47811 and analytical batch 880-47830 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-47812 and analytical batch 880-47832 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-47868/2-A). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-47842 and analytical batch 880-48111 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: SW-9 (0-6.5') (880-25357-11), SW-10 (0-6.5') (880-25357-12), SW-11 (0-6.5') (880-25357-13), SW-12 (0-6.5') (880-25357-14), SW-13 (0-6.5') (880-25357-15), SW-14 (0-6.5') (880-25357-16), SW-15 (0-6.5') (880-25357-17), SW-16 (0-6.5') (880-25357-18), BTM-1 (6.5') (880-25357-19), BTM-2 (6.5') (880-25357-20), (880-25357-A-11-C MS) and (880-25357-A-11-D MSD).

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: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: ESW-1-2 (0-6.5')

Lab Sample ID: 880-25357-1

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 05:49	1
Toluene	<0.00500	U	0.00500		mg/Kg		03/08/23 16:07	03/09/23 05:49	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 05:49	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 05:49	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 05:49	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	03/08/23 16:07	03/09/23 05:49	1
4-Bromofluorobenzene (Surr)	108		68 - 152	03/08/23 16:07	03/09/23 05:49	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:07	03/09/23 05:49	1
Toluene-d8 (Surr)	104		70 - 130	03/08/23 16:07	03/09/23 05:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 11:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 11:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 11:00	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/04/23 11:03	03/05/23 11:00	1
o-Terphenyl	108		70 - 130	03/04/23 11:03	03/05/23 11:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		25.2		mg/Kg			03/08/23 11:22	5

Client Sample ID: SSW-5-2 (0-6.5')

Lab Sample ID: 880-25357-2

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 06:12	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 06:12	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 06:12	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 06:12	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 06:12	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 06:12	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SSW-5-2 (0-6.5')

Lab Sample ID: 880-25357-2

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	03/08/23 16:07	03/09/23 06:12	1
4-Bromofluorobenzene (Surr)	109		68 - 152	03/08/23 16:07	03/09/23 06:12	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:07	03/09/23 06:12	1
Toluene-d8 (Surr)	104		70 - 130	03/08/23 16:07	03/09/23 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 12:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 12:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 12:05	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/04/23 11:03	03/05/23 12:05	1
o-Terphenyl	109		70 - 130	03/04/23 11:03	03/05/23 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	531		24.8		mg/Kg			03/08/23 11:37	5

Client Sample ID: SW-1 (0-6.5')

Lab Sample ID: 880-25357-3

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 06:35	1
Toluene	<0.00501	U	0.00501		mg/Kg		03/08/23 16:07	03/09/23 06:35	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 06:35	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 06:35	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 06:35	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	03/08/23 16:07	03/09/23 06:35	1
4-Bromofluorobenzene (Surr)	106		68 - 152	03/08/23 16:07	03/09/23 06:35	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:07	03/09/23 06:35	1
Toluene-d8 (Surr)	102		70 - 130	03/08/23 16:07	03/09/23 06:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-1 (0-6.5')

Lab Sample ID: 880-25357-3

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:26	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				03/04/23 11:03	03/05/23 12:26	1
o-Terphenyl	104		70 - 130				03/04/23 11:03	03/05/23 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		5.02		mg/Kg			03/08/23 11:42	1

Client Sample ID: SW-2 (0-6.5')

Lab Sample ID: 880-25357-4

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
Toluene	<0.00504	U	0.00504		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/08/23 16:07	03/09/23 06:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				03/08/23 16:07	03/09/23 06:59	1
4-Bromofluorobenzene (Surr)	106		68 - 152				03/08/23 16:07	03/09/23 06:59	1
Dibromofluoromethane (Surr)	108		53 - 142				03/08/23 16:07	03/09/23 06:59	1
Toluene-d8 (Surr)	105		70 - 130				03/08/23 16:07	03/09/23 06:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:49	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-2 (0-6.5')

Lab Sample ID: 880-25357-4

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/04/23 11:03	03/05/23 12:49	1
o-Terphenyl	100		70 - 130				03/04/23 11:03	03/05/23 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		4.97		mg/Kg			03/08/23 11:47	1

Client Sample ID: SW-3 (0-6.5')

Lab Sample ID: 880-25357-5

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/08/23 16:07	03/09/23 07:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				03/08/23 16:07	03/09/23 07:22	1
4-Bromofluorobenzene (Surr)	106		68 - 152				03/08/23 16:07	03/09/23 07:22	1
Dibromofluoromethane (Surr)	108		53 - 142				03/08/23 16:07	03/09/23 07:22	1
Toluene-d8 (Surr)	103		70 - 130				03/08/23 16:07	03/09/23 07:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 13:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 13:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 13:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/04/23 11:03	03/05/23 13:10	1
o-Terphenyl	98		70 - 130				03/04/23 11:03	03/05/23 13:10	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-3 (0-6.5')

Lab Sample ID: 880-25357-5

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	648		5.01		mg/Kg			03/08/23 11:51	1

Client Sample ID: SW-4 (0-6.5')

Lab Sample ID: 880-25357-6

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:45	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/08/23 16:07	03/09/23 07:45	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:45	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/08/23 16:07	03/09/23 07:45	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/08/23 16:07	03/09/23 07:45	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/08/23 16:07	03/09/23 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150	03/08/23 16:07	03/09/23 07:45	1
4-Bromofluorobenzene (Surr)	104		68 - 152	03/08/23 16:07	03/09/23 07:45	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:07	03/09/23 07:45	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:07	03/09/23 07:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:31	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				03/04/23 11:03	03/05/23 13:31	1
o-Terphenyl	104		70 - 130				03/04/23 11:03	03/05/23 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	901		25.1		mg/Kg			03/08/23 12:45	5

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-5 (0-6.5')

Lab Sample ID: 880-25357-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 08:08	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 08:08	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 08:08	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 08:08	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 08:08	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 08:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150	03/08/23 16:07	03/09/23 08:08	1
4-Bromofluorobenzene (Surr)	105		68 - 152	03/08/23 16:07	03/09/23 08:08	1
Dibromofluoromethane (Surr)	106		53 - 142	03/08/23 16:07	03/09/23 08:08	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:07	03/09/23 08:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/04/23 11:03	03/05/23 13:53	1
o-Terphenyl	104		70 - 130	03/04/23 11:03	03/05/23 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	543		4.96		mg/Kg			03/08/23 12:50	1

Client Sample ID: SW-6 (0-6.5')

Lab Sample ID: 880-25357-8

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:07	03/09/23 08:31	1
Toluene	<0.00499	U	0.00499		mg/Kg		03/08/23 16:07	03/09/23 08:31	1
Ethylbenzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:07	03/09/23 08:31	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 08:31	1
o-Xylene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:07	03/09/23 08:31	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 08:31	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-6 (0-6.5')

Lab Sample ID: 880-25357-8

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150	03/08/23 16:07	03/09/23 08:31	1
4-Bromofluorobenzene (Surr)	107		68 - 152	03/08/23 16:07	03/09/23 08:31	1
Dibromofluoromethane (Surr)	106		53 - 142	03/08/23 16:07	03/09/23 08:31	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:07	03/09/23 08:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:15	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/04/23 11:03	03/05/23 14:15	1
o-Terphenyl	112		70 - 130	03/04/23 11:03	03/05/23 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.95		mg/Kg			03/08/23 18:11	1

Client Sample ID: SW-7 (0-6.5')

Lab Sample ID: 880-25357-9

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 08:54	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:07	03/09/23 08:54	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 08:54	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 08:54	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 08:54	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	03/08/23 16:07	03/09/23 08:54	1
4-Bromofluorobenzene (Surr)	102		68 - 152	03/08/23 16:07	03/09/23 08:54	1
Dibromofluoromethane (Surr)	109		53 - 142	03/08/23 16:07	03/09/23 08:54	1
Toluene-d8 (Surr)	101		70 - 130	03/08/23 16:07	03/09/23 08:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-7 (0-6.5')

Lab Sample ID: 880-25357-9

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:36	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	03/04/23 11:03	03/05/23 14:36	1
o-Terphenyl	107		70 - 130	03/04/23 11:03	03/05/23 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	898		25.0		mg/Kg			03/08/23 18:16	5

Client Sample ID: SW-8 (0-6.5')

Lab Sample ID: 880-25357-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:17	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 09:17	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:17	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 09:17	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:17	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 09:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	03/08/23 16:07	03/09/23 09:17	1
4-Bromofluorobenzene (Surr)	103		68 - 152	03/08/23 16:07	03/09/23 09:17	1
Dibromofluoromethane (Surr)	103		53 - 142	03/08/23 16:07	03/09/23 09:17	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:07	03/09/23 09:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:58	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-8 (0-6.5')

Lab Sample ID: 880-25357-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/04/23 11:03	03/05/23 14:58	1
o-Terphenyl	108		70 - 130				03/04/23 11:03	03/05/23 14:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		4.96		mg/Kg			03/08/23 18:20	1

Client Sample ID: SW-9 (0-6.5')

Lab Sample ID: 880-25357-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 09:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150				03/08/23 16:07	03/09/23 09:40	1
4-Bromofluorobenzene (Surr)	105		68 - 152				03/08/23 16:07	03/09/23 09:40	1
Dibromofluoromethane (Surr)	108		53 - 142				03/08/23 16:07	03/09/23 09:40	1
Toluene-d8 (Surr)	103		70 - 130				03/08/23 16:07	03/09/23 09:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 15:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 15:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 15:42	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/04/23 11:03	03/05/23 15:42	1
o-Terphenyl	105		70 - 130				03/04/23 11:03	03/05/23 15:42	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-9 (0-6.5')

Lab Sample ID: 880-25357-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3110	F1	50.5		mg/Kg			03/08/23 18:25	10

Client Sample ID: SW-10 (0-6.5')

Lab Sample ID: 880-25357-12

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 10:03	1
Toluene	<0.00501	U	0.00501		mg/Kg		03/08/23 16:07	03/09/23 10:03	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 10:03	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 10:03	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/08/23 16:07	03/09/23 10:03	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:07	03/09/23 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	03/08/23 16:07	03/09/23 10:03	1
4-Bromofluorobenzene (Surr)	107		68 - 152	03/08/23 16:07	03/09/23 10:03	1
Dibromofluoromethane (Surr)	105		53 - 142	03/08/23 16:07	03/09/23 10:03	1
Toluene-d8 (Surr)	105		70 - 130	03/08/23 16:07	03/09/23 10:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:03	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/04/23 11:03	03/05/23 16:03	1
o-Terphenyl	106		70 - 130				03/04/23 11:03	03/05/23 16:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		4.99		mg/Kg			03/08/23 18:40	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-11 (0-6.5')

Lab Sample ID: 880-25357-13

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 10:27	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 10:27	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 10:27	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 10:27	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 10:27	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	03/08/23 16:07	03/09/23 10:27	1
4-Bromofluorobenzene (Surr)	103		68 - 152	03/08/23 16:07	03/09/23 10:27	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:07	03/09/23 10:27	1
Toluene-d8 (Surr)	104		70 - 130	03/08/23 16:07	03/09/23 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:24	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/04/23 11:03	03/05/23 16:24	1
o-Terphenyl	94		70 - 130	03/04/23 11:03	03/05/23 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		49.8		mg/Kg			03/08/23 18:45	10

Client Sample ID: SW-12 (0-6.5')

Lab Sample ID: 880-25357-14

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 10:50	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:07	03/09/23 10:50	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 10:50	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 10:50	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:07	03/09/23 10:50	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 10:50	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-12 (0-6.5')

Lab Sample ID: 880-25357-14

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150	03/08/23 16:07	03/09/23 10:50	1
4-Bromofluorobenzene (Surr)	104		68 - 152	03/08/23 16:07	03/09/23 10:50	1
Dibromofluoromethane (Surr)	110		53 - 142	03/08/23 16:07	03/09/23 10:50	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:07	03/09/23 10:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 16:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 16:46	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/04/23 11:03	03/05/23 16:46	1
o-Terphenyl	105		70 - 130	03/04/23 11:03	03/05/23 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	491		5.00		mg/Kg			03/08/23 18:59	1

Client Sample ID: SW-13 (0-6.5')

Lab Sample ID: 880-25357-15

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 11:13	1
Toluene	<0.00495	U	0.00495		mg/Kg		03/08/23 16:07	03/09/23 11:13	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 11:13	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 11:13	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		03/08/23 16:07	03/09/23 11:13	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:07	03/09/23 11:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150	03/08/23 16:07	03/09/23 11:13	1
4-Bromofluorobenzene (Surr)	107		68 - 152	03/08/23 16:07	03/09/23 11:13	1
Dibromofluoromethane (Surr)	106		53 - 142	03/08/23 16:07	03/09/23 11:13	1
Toluene-d8 (Surr)	101		70 - 130	03/08/23 16:07	03/09/23 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-13 (0-6.5')

Lab Sample ID: 880-25357-15

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:07	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/04/23 11:03	03/05/23 17:07	1
o-Terphenyl	95		70 - 130	03/04/23 11:03	03/05/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		50.4		mg/Kg			03/08/23 19:04	10

Client Sample ID: SW-14 (0-6.5')

Lab Sample ID: 880-25357-16

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 11:36	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:41	03/09/23 11:36	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 11:36	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 11:36	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 11:36	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		56 - 150	03/08/23 16:41	03/09/23 11:36	1
4-Bromofluorobenzene (Surr)	106		68 - 152	03/08/23 16:41	03/09/23 11:36	1
Dibromofluoromethane (Surr)	111		53 - 142	03/08/23 16:41	03/09/23 11:36	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:41	03/09/23 11:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.2		50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 17:28	1
Diesel Range Organics (Over C10-C28)	79.2		50.0		mg/Kg		03/04/23 11:03	03/05/23 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 17:28	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-14 (0-6.5')

Lab Sample ID: 880-25357-16

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.2		50.0		mg/Kg		03/04/23 11:03	03/05/23 17:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	105		70 - 130				03/04/23 11:03	03/05/23 17:28	1
o-Terphenyl	104		70 - 130				03/04/23 11:03	03/05/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	891		4.97		mg/Kg			03/08/23 19:28	1

Client Sample ID: SW-15 (0-6.5')

Lab Sample ID: 880-25357-17

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
Toluene	<0.00499	U	0.00499		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
Ethylbenzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
o-Xylene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:41	03/09/23 11:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				03/08/23 16:41	03/09/23 11:59	1
4-Bromofluorobenzene (Surr)	103		68 - 152				03/08/23 16:41	03/09/23 11:59	1
Dibromofluoromethane (Surr)	105		53 - 142				03/08/23 16:41	03/09/23 11:59	1
Toluene-d8 (Surr)	103		70 - 130				03/08/23 16:41	03/09/23 11:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:50	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 17:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	105		70 - 130				03/04/23 11:03	03/05/23 17:50	1
o-Terphenyl	102		70 - 130				03/04/23 11:03	03/05/23 17:50	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-15 (0-6.5')

Lab Sample ID: 880-25357-17

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	352		5.01		mg/Kg			03/08/23 19:09	1

Client Sample ID: SW-16 (0-6.5')

Lab Sample ID: 880-25357-18

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:22	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:41	03/09/23 12:22	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:22	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 12:22	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:22	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	03/08/23 16:41	03/09/23 12:22	1
4-Bromofluorobenzene (Surr)	103		68 - 152	03/08/23 16:41	03/09/23 12:22	1
Dibromofluoromethane (Surr)	109		53 - 142	03/08/23 16:41	03/09/23 12:22	1
Toluene-d8 (Surr)	104		70 - 130	03/08/23 16:41	03/09/23 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:12	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	106		70 - 130				03/04/23 11:03	03/05/23 18:12	1
o-Terphenyl	103		70 - 130				03/04/23 11:03	03/05/23 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.4		5.00		mg/Kg			03/08/23 19:14	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-1 (6.5')

Lab Sample ID: 880-25357-19

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:46	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:41	03/09/23 12:46	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:46	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 12:46	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/09/23 12:46	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/09/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	03/08/23 16:41	03/09/23 12:46	1
4-Bromofluorobenzene (Surr)	103		68 - 152	03/08/23 16:41	03/09/23 12:46	1
Dibromofluoromethane (Surr)	108		53 - 142	03/08/23 16:41	03/09/23 12:46	1
Toluene-d8 (Surr)	106		70 - 130	03/08/23 16:41	03/09/23 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 18:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 18:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 18:34	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/04/23 11:03	03/05/23 18:34	1
o-Terphenyl	105		70 - 130	03/04/23 11:03	03/05/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		25.2		mg/Kg			03/08/23 19:19	5

Client Sample ID: BTM-2 (6.5')

Lab Sample ID: 880-25357-20

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/08/23 17:36	1
Toluene	<0.00499	U	0.00499		mg/Kg		03/08/23 16:41	03/08/23 17:36	1
Ethylbenzene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/08/23 17:36	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/08/23 16:41	03/08/23 17:36	1
o-Xylene	<0.000998	U	0.000998		mg/Kg		03/08/23 16:41	03/08/23 17:36	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/08/23 16:41	03/08/23 17:36	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-2 (6.5')

Lab Sample ID: 880-25357-20

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150	03/08/23 16:41	03/08/23 17:36	1
4-Bromofluorobenzene (Surr)	119		68 - 152	03/08/23 16:41	03/08/23 17:36	1
Dibromofluoromethane (Surr)	105		53 - 142	03/08/23 16:41	03/08/23 17:36	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:41	03/08/23 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/06/23 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:55	1
Total TPH	<49.9	U	49.9		mg/Kg		03/04/23 11:03	03/05/23 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/04/23 11:03	03/05/23 18:55	1
o-Terphenyl	109		70 - 130	03/04/23 11:03	03/05/23 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	239		4.99		mg/Kg			03/08/23 19:24	1

Client Sample ID: BTM-3 (6.5')

Lab Sample ID: 880-25357-21

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 17:59	1
Toluene	<0.00497	U	0.00497		mg/Kg		03/08/23 16:41	03/08/23 17:59	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 17:59	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/08/23 16:41	03/08/23 17:59	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 17:59	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/08/23 16:41	03/08/23 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150	03/08/23 16:41	03/08/23 17:59	1
4-Bromofluorobenzene (Surr)	122		68 - 152	03/08/23 16:41	03/08/23 17:59	1
Dibromofluoromethane (Surr)	107		53 - 142	03/08/23 16:41	03/08/23 17:59	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:41	03/08/23 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/09/23 14:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-3 (6.5')

Lab Sample ID: 880-25357-21

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/06/23 11:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		03/04/23 10:55	03/05/23 18:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 18:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 18:34	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/04/23 10:55	03/05/23 18:34	1
o-Terphenyl	94		70 - 130	03/04/23 10:55	03/05/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	188		5.01		mg/Kg			03/05/23 19:15	1

Client Sample ID: BTM-4 (6.5')

Lab Sample ID: 880-25357-22

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/08/23 18:45	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/08/23 16:41	03/08/23 18:45	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/08/23 18:45	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/08/23 18:45	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/08/23 16:41	03/08/23 18:45	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/08/23 16:41	03/08/23 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	03/08/23 16:41	03/08/23 18:45	1
4-Bromofluorobenzene (Surr)	122		68 - 152	03/08/23 16:41	03/08/23 18:45	1
Dibromofluoromethane (Surr)	111		53 - 142	03/08/23 16:41	03/08/23 18:45	1
Toluene-d8 (Surr)	103		70 - 130	03/08/23 16:41	03/08/23 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 11:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 11:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 11:09	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-4 (6.5')

Lab Sample ID: 880-25357-22

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/06/23 08:24	03/06/23 11:09	1
o-Terphenyl	112		70 - 130				03/06/23 08:24	03/06/23 11:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	358		5.00		mg/Kg			03/05/23 19:30	1

Client Sample ID: BTM-5 (6.5')

Lab Sample ID: 880-25357-23

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

## Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
Toluene	<0.00497	U	0.00497		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/08/23 16:41	03/08/23 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150				03/08/23 16:41	03/08/23 19:08	1
4-Bromofluorobenzene (Surr)	120		68 - 152				03/08/23 16:41	03/08/23 19:08	1
Dibromofluoromethane (Surr)	108		53 - 142				03/08/23 16:41	03/08/23 19:08	1
Toluene-d8 (Surr)	99		70 - 130				03/08/23 16:41	03/08/23 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/09/23 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/23 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:16	1
Total TPH	<49.9	U	49.9		mg/Kg		03/06/23 08:24	03/06/23 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				03/06/23 08:24	03/06/23 12:16	1
o-Terphenyl	120		70 - 130				03/06/23 08:24	03/06/23 12:16	1

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Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-5 (6.5')  
Date Collected: 03/01/23 00:00  
Date Received: 03/02/23 10:16

Lab Sample ID: 880-25357-23  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.8		4.99		mg/Kg			03/05/23 19:35	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
860-44135-E-8-A MS	Matrix Spike	86	121	111	104
880-25357-1	ESW-1-2 (0-6.5')	109	108	107	104
880-25357-1 MS	ESW-1-2 (0-6.5')	103	110	105	105
880-25357-2	SSW-5-2 (0-6.5')	107	109	107	104
880-25357-3	SW-1 (0-6.5')	107	106	107	102
880-25357-4	SW-2 (0-6.5')	109	106	108	105
880-25357-5	SW-3 (0-6.5')	109	106	108	103
880-25357-6	SW-4 (0-6.5')	108	104	107	103
880-25357-7	SW-5 (0-6.5')	107	105	106	103
880-25357-8	SW-6 (0-6.5')	108	107	106	103
880-25357-9	SW-7 (0-6.5')	110	102	109	101
880-25357-10	SW-8 (0-6.5')	112	103	103	103
880-25357-11	SW-9 (0-6.5')	107	105	108	103
880-25357-12	SW-10 (0-6.5')	112	107	105	105
880-25357-13	SW-11 (0-6.5')	111	103	107	104
880-25357-14	SW-12 (0-6.5')	110	104	110	103
880-25357-15	SW-13 (0-6.5')	109	107	106	101
880-25357-16	SW-14 (0-6.5')	111	106	111	103
880-25357-17	SW-15 (0-6.5')	109	103	105	103
880-25357-18	SW-16 (0-6.5')	105	103	109	104
880-25357-19	BTM-1 (6.5')	105	103	108	106
880-25357-20	BTM-2 (6.5')	95	119	105	103
880-25357-21	BTM-3 (6.5')	95	122	107	103
880-25357-22	BTM-4 (6.5')	101	122	111	103
880-25357-23	BTM-5 (6.5')	98	120	108	99
LCS 860-93158/12	Lab Control Sample	92	115	107	101
LCS 860-93266/3	Lab Control Sample	98	109	102	107
LCSD 860-93158/13	Lab Control Sample Dup	92	112	112	102
LCSD 860-93266/4	Lab Control Sample Dup	96	110	105	105
MB 860-93158/17	Method Blank	92	119	104	102
MB 860-93266/8	Method Blank	108	106	103	107

## Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-25357-1	ESW-1-2 (0-6.5')	112	108
880-25357-1 MS	ESW-1-2 (0-6.5')	118	104
880-25357-1 MSD	ESW-1-2 (0-6.5')	116	103
880-25357-2	SSW-5-2 (0-6.5')	112	109
880-25357-3	SW-1 (0-6.5')	103	104
880-25357-4	SW-2 (0-6.5')	100	100

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## Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-25357-1

Project/Site: Red Hills Phase 2 and 3

SDG: Eddy Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-25357-5	SW-3 (0-6.5')	98	98
880-25357-6	SW-4 (0-6.5')	104	104
880-25357-7	SW-5 (0-6.5')	104	104
880-25357-8	SW-6 (0-6.5')	110	112
880-25357-9	SW-7 (0-6.5')	111	107
880-25357-10	SW-8 (0-6.5')	108	108
880-25357-11	SW-9 (0-6.5')	109	105
880-25357-12	SW-10 (0-6.5')	107	106
880-25357-13	SW-11 (0-6.5')	103	94
880-25357-14	SW-12 (0-6.5')	108	105
880-25357-15	SW-13 (0-6.5')	97	95
880-25357-16	SW-14 (0-6.5')	105	104
880-25357-17	SW-15 (0-6.5')	105	102
880-25357-18	SW-16 (0-6.5')	106	103
880-25357-19	BTM-1 (6.5')	104	105
880-25357-20	BTM-2 (6.5')	110	109
880-25357-21	BTM-3 (6.5')	99	94
880-25357-22	BTM-4 (6.5')	106	112
880-25357-22 MS	BTM-4 (6.5')	115	111
880-25357-22 MSD	BTM-4 (6.5')	105	106
880-25357-23	BTM-5 (6.5')	119	120
890-4212-A-21-B MS	Matrix Spike	107	96
890-4212-A-21-C MSD	Matrix Spike Duplicate	109	98
LCS 880-47811/2-A	Lab Control Sample	93	85
LCS 880-47812/2-A	Lab Control Sample	101	93
LCS 880-47868/2-A	Lab Control Sample	126	135 S1+
LCSD 880-47811/3-A	Lab Control Sample Dup	92	84
LCSD 880-47812/3-A	Lab Control Sample Dup	101	93
LCSD 880-47868/3-A	Lab Control Sample Dup	114	119
MB 880-47811/1-A	Method Blank	123	121
MB 880-47812/1-A	Method Blank	136 S1+	133 S1+
MB 880-47868/1-A	Method Blank	110	125

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl



## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 860-44135-E-8-A MS

Matrix: Solid

Analysis Batch: 93158

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 92980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0198	U	0.990	0.8029		mg/Kg		81	71 - 119
Toluene	<0.0990	U	0.990	0.8820		mg/Kg		89	74 - 122
Ethylbenzene	<0.0198	U	0.990	0.8687		mg/Kg		88	80 - 123
m,p-Xylenes	<0.0396	U	0.990	0.9475		mg/Kg		93	78 - 127
o-Xylene	0.0336		0.990	0.9383		mg/Kg		91	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		56 - 150
4-Bromofluorobenzene (Surr)	121		68 - 152
Dibromofluoromethane (Surr)	111		53 - 142
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: MB 860-93158/17

Matrix: Solid

Analysis Batch: 93158

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/08/23 13:56	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/08/23 13:56	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/08/23 13:56	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/08/23 13:56	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/08/23 13:56	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/08/23 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		56 - 150		03/08/23 13:56	1
4-Bromofluorobenzene (Surr)	119		68 - 152		03/08/23 13:56	1
Dibromofluoromethane (Surr)	104		53 - 142		03/08/23 13:56	1
Toluene-d8 (Surr)	102		70 - 130		03/08/23 13:56	1

Lab Sample ID: LCS 860-93158/12

Matrix: Solid

Analysis Batch: 93158

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04466		mg/Kg		89	66 - 142
Toluene	0.0500	0.04639		mg/Kg		93	74 - 130
Ethylbenzene	0.0500	0.04759		mg/Kg		95	80 - 130
m,p-Xylenes	0.0500	0.05004		mg/Kg		100	78 - 130
o-Xylene	0.0500	0.04911		mg/Kg		98	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	115		68 - 152
Dibromofluoromethane (Surr)	107		53 - 142
Toluene-d8 (Surr)	101		70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-93158/13

Matrix: Solid

Analysis Batch: 93158

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04590		mg/Kg		92	66 - 142	3	25
Toluene	0.0500	0.04963		mg/Kg		99	74 - 130	7	25
Ethylbenzene	0.0500	0.04985		mg/Kg		100	80 - 130	5	25
m,p-Xylenes	0.0500	0.05203		mg/Kg		104	78 - 130	4	25
o-Xylene	0.0500	0.05169		mg/Kg		103	79 - 130	5	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	112		53 - 142
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 880-25357-1 MS

Matrix: Solid

Analysis Batch: 93266

Client Sample ID: ESW-1-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 93243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0501	0.04522		mg/Kg		90	71 - 119
Toluene	<0.00500	U	0.0501	0.04302		mg/Kg		86	74 - 122
Ethylbenzene	<0.00100	U	0.0501	0.04214		mg/Kg		84	80 - 123
m,p-Xylenes	<0.00200	U	0.0501	0.04204		mg/Kg		84	78 - 127
o-Xylene	<0.00100	U	0.0501	0.04416		mg/Kg		88	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	110		68 - 152
Dibromofluoromethane (Surr)	105		53 - 142
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: MB 860-93266/8

Matrix: Solid

Analysis Batch: 93266

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/09/23 05:03	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/09/23 05:03	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/09/23 05:03	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/09/23 05:03	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/09/23 05:03	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/09/23 05:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150		03/09/23 05:03	1
4-Bromofluorobenzene (Surr)	106		68 - 152		03/09/23 05:03	1
Dibromofluoromethane (Surr)	103		53 - 142		03/09/23 05:03	1
Toluene-d8 (Surr)	107		70 - 130		03/09/23 05:03	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-93266/3

Matrix: Solid

Analysis Batch: 93266

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04893		mg/Kg		98	66 - 142
Toluene	0.0500	0.04995		mg/Kg		100	74 - 130
Ethylbenzene	0.0500	0.04908		mg/Kg		98	80 - 130
m,p-Xylenes	0.0500	0.04877		mg/Kg		98	78 - 130
o-Xylene	0.0500	0.04977		mg/Kg		100	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		56 - 150
4-Bromofluorobenzene (Surr)	109		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: LCSD 860-93266/4

Matrix: Solid

Analysis Batch: 93266

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04816		mg/Kg		96	66 - 142	2	25
Toluene	0.0500	0.04672		mg/Kg		93	74 - 130	7	25
Ethylbenzene	0.0500	0.04690		mg/Kg		94	80 - 130	5	25
m,p-Xylenes	0.0500	0.04643		mg/Kg		93	78 - 130	5	25
o-Xylene	0.0500	0.04814		mg/Kg		96	79 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		56 - 150
4-Bromofluorobenzene (Surr)	110		68 - 152
Dibromofluoromethane (Surr)	105		53 - 142
Toluene-d8 (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-47811/1-A

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47811

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		03/04/23 10:55	03/05/23 08:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 08:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 08:30	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 10:55	03/05/23 08:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	03/04/23 10:55	03/05/23 08:30	1
o-Terphenyl	121		70 - 130	03/04/23 10:55	03/05/23 08:30	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-47811/2-A

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47811

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	574.4	*-	mg/Kg		57	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	867.5		mg/Kg		87	70 - 130		
											</

Lab Sample ID: LCSD 880-47811/3-A

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47811

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	568.0	*-	mg/Kg		57	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	848.8		mg/Kg		85	70 - 130	2	20
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: 890-4212-A-21-B MS

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47811

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	998	773.3		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	722.1		mg/Kg		70	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: 890-4212-A-21-C MSD

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47811

	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 *-	999	800.0		mg/Kg		80	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	738.2		mg/Kg		71	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	109		70 - 130								

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 890-4212-A-21-C MSD

Matrix: Solid

Analysis Batch: 47830

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 47811

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Lab Sample ID: MB 880-47812/1-A

Matrix: Solid

Analysis Batch: 47832

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47812

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 08:30	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 08:30	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 08:30	1	
Total TPH	<50.0	U	50.0		mg/Kg		03/04/23 11:03	03/05/23 08:30	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	136	S1+	70 - 130	03/04/23 11:03	03/05/23 08:30	1				
<i>o</i> -Terphenyl	133	S1+	70 - 130	03/04/23 11:03	03/05/23 08:30	1				

Lab Sample ID: LCS 880-47812/2-A

Matrix: Solid

Analysis Batch: 47832

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47812

	Spike	LCS	LCS							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	998.0		mg/Kg		100		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	940.3		mg/Kg		94		70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
<i>o</i> -Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-47812/3-A

Matrix: Solid

Analysis Batch: 47832

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47812

	Spike	LCSD	LCSD								
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	897.3		mg/Kg		90		70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	1000	925.5		mg/Kg		93		70 - 130	2	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
<i>o</i> -Terphenyl	93		70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

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

Lab Sample ID: 880-25357-1 MS

Matrix: Solid

Analysis Batch: 47832

Client Sample ID: ESW-1-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 47812

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	1063		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	850.1		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	118		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: 880-25357-1 MSD

Matrix: Solid

Analysis Batch: 47832

Client Sample ID: ESW-1-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 47812

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	999	1044		mg/Kg		102	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	843.3		mg/Kg		83	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	103		70 - 130								

Lab Sample ID: MB 880-47868/1-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47868

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		03/06/23 08:24	03/06/23 08:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
Total TPH	<50.0	U	50.0		mg/Kg		03/06/23 08:24	03/06/23 08:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/06/23 08:24	03/06/23 08:33	1
o-Terphenyl	125		70 - 130				03/06/23 08:24	03/06/23 08:33	1

Lab Sample ID: LCS 880-47868/2-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1067		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1020		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-47868/2-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47868

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-47868/3-A

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	961.3		mg/Kg		96	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	912.4		mg/Kg		91	70 - 130	11	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 880-25357-22 MS

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: BTM-4 (6.5')

Prep Type: Total/NA

Prep Batch: 47868

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	998	999.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1099		mg/Kg		110	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-25357-22 MSD

Matrix: Solid

Analysis Batch: 47856

Client Sample ID: BTM-4 (6.5')

Prep Type: Total/NA

Prep Batch: 47868

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	999	1079		mg/Kg		105	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1050		mg/Kg		105	70 - 130	5	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	106		70 - 130

Eurofins Midland



## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47779/1-A

Matrix: Solid

Analysis Batch: 47847

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			03/05/23 19:00	1

Lab Sample ID: LCS 880-47779/2-A

Matrix: Solid

Analysis Batch: 47847

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-47779/3-A

Matrix: Solid

Analysis Batch: 47847

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	268.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-25357-21 MS

Matrix: Solid

Analysis Batch: 47847

Client Sample ID: BTM-3 (6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	188		251	443.2		mg/Kg		102	90 - 110

Lab Sample ID: 880-25357-21 MSD

Matrix: Solid

Analysis Batch: 47847

Client Sample ID: BTM-3 (6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	188		251	443.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-47842/1-A

Matrix: Solid

Analysis Batch: 48111

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			03/08/23 11:08	1

Lab Sample ID: LCS 880-47842/2-A

Matrix: Solid

Analysis Batch: 48111

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.4		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-47842/3-A

Matrix: Solid

Analysis Batch: 48111

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	268.4		mg/Kg		107	90 - 110	0	20

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-25357-1 MS

Matrix: Solid

Analysis Batch: 48111

Client Sample ID: ESW-1-2 (0-6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1310		1260	2638		mg/Kg		106	90 - 110		

Lab Sample ID: 880-25357-1 MSD

Matrix: Solid

Analysis Batch: 48111

Client Sample ID: ESW-1-2 (0-6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1310		1260	2642		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-25357-11 MS

Matrix: Solid

Analysis Batch: 48111

Client Sample ID: SW-9 (0-6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3110	F1	2530	5959	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-25357-11 MSD

Matrix: Solid

Analysis Batch: 48111

Client Sample ID: SW-9 (0-6.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3110	F1	2530	5962	F1	mg/Kg		113	90 - 110	0	20



## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## GC/MS VOA

## Prep Batch: 92980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44135-E-8-A MS	Matrix Spike	Total/NA	Solid	5035	

## Analysis Batch: 93158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	8260D	93243
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	8260D	93243
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	8260D	93243
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	8260D	93243
MB 860-93158/17	Method Blank	Total/NA	Solid	8260D	
LCS 860-93158/12	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-93158/13	Lab Control Sample Dup	Total/NA	Solid	8260D	
860-44135-E-8-A MS	Matrix Spike	Total/NA	Solid	8260D	92980

## Prep Batch: 93243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	5035	
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	5035	
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	5035	
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	5035	
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	5035	
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	5035	
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	5035	
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	5035	
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	5035	
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	5035	
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	5035	
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	5035	
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	5035	
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	5035	
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	5035	
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	5035	
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	5035	
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	5035	
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	5035	
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	5035	
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	5035	
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	5035	
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	5035	
880-25357-1 MS	ESW-1-2 (0-6.5')	Total/NA	Solid	5035	

## Analysis Batch: 93266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	8260D	93243

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## GC/MS VOA (Continued)

## Analysis Batch: 93266 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	8260D	93243
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	8260D	93243
MB 860-93266/8	Method Blank	Total/NA	Solid	8260D	
LCS 860-93266/3	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 860-93266/4	Lab Control Sample Dup	Total/NA	Solid	8260D	
880-25357-1 MS	ESW-1-2 (0-6.5')	Total/NA	Solid	8260D	93243

## Analysis Batch: 93438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	Total BTEX	
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	Total BTEX	
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	Total BTEX	
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	Total BTEX	
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	Total BTEX	
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 47811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	8015NM Prep	
MB 880-47811/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47811/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4212-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4212-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## GC Semi VOA

## Prep Batch: 47812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	8015NM Prep	
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	8015NM Prep	
MB 880-47812/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47812/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47812/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-1 MS	ESW-1-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-25357-1 MSD	ESW-1-2 (0-6.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 47830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	8015B NM	47811
MB 880-47811/1-A	Method Blank	Total/NA	Solid	8015B NM	47811
LCS 880-47811/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47811
LCSD 880-47811/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47811
890-4212-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47811
890-4212-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47811

## Analysis Batch: 47832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	8015B NM	47812

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 47832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	8015B NM	47812
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	8015B NM	47812
MB 880-47812/1-A	Method Blank	Total/NA	Solid	8015B NM	47812
LCS 880-47812/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47812
LCSD 880-47812/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47812
880-25357-1 MS	ESW-1-2 (0-6.5')	Total/NA	Solid	8015B NM	47812
880-25357-1 MSD	ESW-1-2 (0-6.5')	Total/NA	Solid	8015B NM	47812

## Analysis Batch: 47856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	8015B NM	47868
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	8015B NM	47868
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015B NM	47868
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47868
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47868
880-25357-22 MS	BTM-4 (6.5')	Total/NA	Solid	8015B NM	47868
880-25357-22 MSD	BTM-4 (6.5')	Total/NA	Solid	8015B NM	47868

## Prep Batch: 47868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	8015NM Prep	
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	8015NM Prep	
MB 880-47868/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47868/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47868/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25357-22 MS	BTM-4 (6.5')	Total/NA	Solid	8015NM Prep	
880-25357-22 MSD	BTM-4 (6.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 47903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-2	SSW-5-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-3	SW-1 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-4	SW-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-5	SW-3 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-6	SW-4 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-7	SW-5 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-8	SW-6 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-9	SW-7 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-10	SW-8 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-11	SW-9 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-12	SW-10 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-13	SW-11 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-14	SW-12 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-15	SW-13 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-16	SW-14 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-17	SW-15 (0-6.5')	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 47903 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-18	SW-16 (0-6.5')	Total/NA	Solid	8015 NM	
880-25357-19	BTM-1 (6.5')	Total/NA	Solid	8015 NM	
880-25357-20	BTM-2 (6.5')	Total/NA	Solid	8015 NM	
880-25357-21	BTM-3 (6.5')	Total/NA	Solid	8015 NM	
880-25357-22	BTM-4 (6.5')	Total/NA	Solid	8015 NM	
880-25357-23	BTM-5 (6.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 47779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-21	BTM-3 (6.5')	Soluble	Solid	DI Leach	
880-25357-22	BTM-4 (6.5')	Soluble	Solid	DI Leach	
880-25357-23	BTM-5 (6.5')	Soluble	Solid	DI Leach	
MB 880-47779/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47779/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25357-21 MS	BTM-3 (6.5')	Soluble	Solid	DI Leach	
880-25357-21 MSD	BTM-3 (6.5')	Soluble	Solid	DI Leach	

## Leach Batch: 47842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-2	SSW-5-2 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-3	SW-1 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-4	SW-2 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-5	SW-3 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-6	SW-4 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-7	SW-5 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-8	SW-6 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-9	SW-7 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-10	SW-8 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-11	SW-9 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-12	SW-10 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-13	SW-11 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-14	SW-12 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-15	SW-13 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-16	SW-14 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-17	SW-15 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-18	SW-16 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-19	BTM-1 (6.5')	Soluble	Solid	DI Leach	
880-25357-20	BTM-2 (6.5')	Soluble	Solid	DI Leach	
MB 880-47842/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47842/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47842/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25357-1 MS	ESW-1-2 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-1 MSD	ESW-1-2 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-11 MS	SW-9 (0-6.5')	Soluble	Solid	DI Leach	
880-25357-11 MSD	SW-9 (0-6.5')	Soluble	Solid	DI Leach	

Eurofins Midland



## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

## HPLC/IC

## Analysis Batch: 47847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-21	BTM-3 (6.5')	Soluble	Solid	300.0	47779
880-25357-22	BTM-4 (6.5')	Soluble	Solid	300.0	47779
880-25357-23	BTM-5 (6.5')	Soluble	Solid	300.0	47779
MB 880-47779/1-A	Method Blank	Soluble	Solid	300.0	47779
LCS 880-47779/2-A	Lab Control Sample	Soluble	Solid	300.0	47779
LCSD 880-47779/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47779
880-25357-21 MS	BTM-3 (6.5')	Soluble	Solid	300.0	47779
880-25357-21 MSD	BTM-3 (6.5')	Soluble	Solid	300.0	47779

## Analysis Batch: 48111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25357-1	ESW-1-2 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-2	SSW-5-2 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-3	SW-1 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-4	SW-2 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-5	SW-3 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-6	SW-4 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-7	SW-5 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-8	SW-6 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-9	SW-7 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-10	SW-8 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-11	SW-9 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-12	SW-10 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-13	SW-11 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-14	SW-12 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-15	SW-13 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-16	SW-14 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-17	SW-15 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-18	SW-16 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-19	BTM-1 (6.5')	Soluble	Solid	300.0	47842
880-25357-20	BTM-2 (6.5')	Soluble	Solid	300.0	47842
MB 880-47842/1-A	Method Blank	Soluble	Solid	300.0	47842
LCS 880-47842/2-A	Lab Control Sample	Soluble	Solid	300.0	47842
LCSD 880-47842/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47842
880-25357-1 MS	ESW-1-2 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-1 MSD	ESW-1-2 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-11 MS	SW-9 (0-6.5')	Soluble	Solid	300.0	47842
880-25357-11 MSD	SW-9 (0-6.5')	Soluble	Solid	300.0	47842



Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: ESW-1-2 (0-6.5')  
Date Collected: 03/01/23 00:00  
Date Received: 03/02/23 10:16

Lab Sample ID: 880-25357-1  
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			5.00 g	5 mL	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 05:49	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 11:00	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48111	03/08/23 11:22	SMC	EET MID

Client Sample ID: SSW-5-2 (0-6.5')  
Date Collected: 03/01/23 00:00  
Date Received: 03/02/23 10:16

Lab Sample ID: 880-25357-2  
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			5.05 g	5 mL	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 06:12	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 12:05	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48111	03/08/23 11:37	SMC	EET MID

Client Sample ID: SW-1 (0-6.5')  
Date Collected: 03/01/23 00:00  
Date Received: 03/02/23 10:16

Lab Sample ID: 880-25357-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 06:35	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 12:26	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 11:42	SMC	EET MID

Client Sample ID: SW-2 (0-6.5')  
Date Collected: 03/01/23 00:00  
Date Received: 03/02/23 10:16

Lab Sample ID: 880-25357-4  
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			4.96 g	5 mL	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 06:59	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-2 (0-6.5')

Lab Sample ID: 880-25357-4

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 12:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 11:47	SMC	EET MID

Client Sample ID: SW-3 (0-6.5')

Lab Sample ID: 880-25357-5

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 07:22	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 13:10	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 11:51	SMC	EET MID

Client Sample ID: SW-4 (0-6.5')

Lab Sample ID: 880-25357-6

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 07:45	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 13:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48111	03/08/23 12:45	SMC	EET MID

Client Sample ID: SW-5 (0-6.5')

Lab Sample ID: 880-25357-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 08:08	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 13:53	SM	EET MID

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-5 (0-6.5')

Lab Sample ID: 880-25357-7

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 12:50	SMC	EET MID

Client Sample ID: SW-6 (0-6.5')

Lab Sample ID: 880-25357-8

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 08:31	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 14:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 18:11	SMC	EET MID

Client Sample ID: SW-7 (0-6.5')

Lab Sample ID: 880-25357-9

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 08:54	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 14:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48111	03/08/23 18:16	SMC	EET MID

Client Sample ID: SW-8 (0-6.5')

Lab Sample ID: 880-25357-10

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 09:17	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 14:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 18:20	SMC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-9 (0-6.5')

Lab Sample ID: 880-25357-11

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 09:40	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 15:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	48111	03/08/23 18:25	SMC	EET MID

Client Sample ID: SW-10 (0-6.5')

Lab Sample ID: 880-25357-12

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 10:03	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 16:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 18:40	SMC	EET MID

Client Sample ID: SW-11 (0-6.5')

Lab Sample ID: 880-25357-13

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 10:27	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 16:24	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	48111	03/08/23 18:45	SMC	EET MID

Client Sample ID: SW-12 (0-6.5')

Lab Sample ID: 880-25357-14

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 10:50	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: SW-12 (0-6.5')

Lab Sample ID: 880-25357-14

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 16:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 18:59	SMC	EET MID

Client Sample ID: SW-13 (0-6.5')

Lab Sample ID: 880-25357-15

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:07	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 11:13	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 17:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	48111	03/08/23 19:04	SMC	EET MID

Client Sample ID: SW-14 (0-6.5')

Lab Sample ID: 880-25357-16

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 11:36	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 17:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 19:28	SMC	EET MID

Client Sample ID: SW-15 (0-6.5')

Lab Sample ID: 880-25357-17

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 11:59	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 17:50	SM	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

**Client Sample ID: SW-15 (0-6.5')****Lab Sample ID: 880-25357-17****Date Collected: 03/01/23 00:00****Matrix: Solid****Date Received: 03/02/23 10:16**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 19:09	SMC	EET MID

**Client Sample ID: SW-16 (0-6.5')****Lab Sample ID: 880-25357-18****Date Collected: 03/01/23 00:00****Matrix: Solid****Date Received: 03/02/23 10:16**

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 12:22	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 18:12	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 19:14	SMC	EET MID

**Client Sample ID: BTM-1 (6.5')****Lab Sample ID: 880-25357-19****Date Collected: 03/01/23 00:00****Matrix: Solid****Date Received: 03/02/23 10:16**

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93266	03/09/23 12:46	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 18:34	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	48111	03/08/23 19:19	SMC	EET MID

**Client Sample ID: BTM-2 (6.5')****Lab Sample ID: 880-25357-20****Date Collected: 03/01/23 00:00****Matrix: Solid****Date Received: 03/02/23 10:16**

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93158	03/08/23 17:36	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 13:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47812	03/04/23 11:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47832	03/05/23 18:55	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47842	03/05/23 14:45	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48111	03/08/23 19:24	SMC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Client Sample ID: BTM-3 (6.5')

Lab Sample ID: 880-25357-21

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93158	03/08/23 17:59	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/06/23 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47811	03/04/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47830	03/05/23 18:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	47779	03/03/23 16:05	CH	EET MID
Soluble	Analysis	300.0		1			47847	03/05/23 19:15	CH	EET MID

Client Sample ID: BTM-4 (6.5')

Lab Sample ID: 880-25357-22

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93158	03/08/23 18:45	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 11:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47779	03/03/23 16:05	CH	EET MID
Soluble	Analysis	300.0		1			47847	03/05/23 19:30	CH	EET MID

Client Sample ID: BTM-5 (6.5')

Lab Sample ID: 880-25357-23

Date Collected: 03/01/23 00:00

Matrix: Solid

Date Received: 03/02/23 10:16

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	93243	03/08/23 16:41	MTMG	EET HOU
Total/NA	Analysis	8260D		1	5 mL	5 mL	93158	03/08/23 19:08	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			93438	03/09/23 14:06	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			47903	03/07/23 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47868	03/06/23 08:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47856	03/06/23 12:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47779	03/03/23 16:05	CH	EET MID
Soluble	Analysis	300.0		1			47847	03/05/23 19:35	CH	EET MID

## Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Eurofins Midland



Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-48	06-30-23
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
Total BTEX		Solid	Total BTEX



## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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



## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-25357-1  
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25357-1	ESW-1-2 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-2	SSW-5-2 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-3	SW-1 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-4	SW-2 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-5	SW-3 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-6	SW-4 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-7	SW-5 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-8	SW-6 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-9	SW-7 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-10	SW-8 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-11	SW-9 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-12	SW-10 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-13	SW-11 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-14	SW-12 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-15	SW-13 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-16	SW-14 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-17	SW-15 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-18	SW-16 (0-6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-19	BTM-1 (6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-20	BTM-2 (6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-21	BTM-3 (6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-22	BTM-4 (6.5')	Solid	03/01/23 00:00	03/02/23 10:16
880-25357-23	BTM-5 (6.5')	Solid	03/01/23 00:00	03/02/23 10:16



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

501 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 1 of 3

Client Name:

Western Midstream

Site Manager:

John Faught

Project Name

Red Hills Phase 2 and 3

Project Location  
(county, state)

Eddy County, NM

Project #

212C-MD-02853

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Eurofins

Sampler Signature:

*John Faught*

Comments

Email: john.faught@tetratech.com; russell.weigand@tetratech.com

SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

SAMPLING  
YEAR  
DATE  
TIME

MATRIX  
WATER  
SOIL

PRESERVATIVE  
METHOD  
HCL  
HNO<sub>3</sub>  
ICE

# CONTAINERS  
FILTERED (Y/N)

ESW-1-2 (0-6.5) ✓

SSW-5-2 (0-6.5) ✓

SW-1 (0-6.5) ✓

SW-2 (0-6.5) ✓

SW-3 (0-6.5) ✓

SW-4 (0-6.5) ✓

SW-5 (0-6.5) ✓

SW-6 (0-6.5) ✓

SW-7 (0-6.5) ✓

SW-8 (0-6.5) ✓

Date Time

3-2-23 0530

Relinquished by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

Received by:

Date Time

Received by:

Date Time

LAB USE ONLY

REMARKS:

Sample Temperature

57.54

-0.3

☐ RUSH Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Cir

880-25357 Chain of Custody



Hold

ORIGINAL COPY



- 1
- 2
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- 7
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- 9
- 10
- 11
- 12
- 13
- 14

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 2 of 3

3/9/2023

Client Name:

Western Midstream

Site Manager:

John Faught

Project Name:

Red Hills Phase 2 and 3

Project Location  
(county, state)

Eddy County, NM

Project #:

212C-MD-02853

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Eurofins

Sampler Signature

Comments:

Email: john.faught@tetratech.com, russell.weigand@tetratech.com

LAB #  
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING

MATRIX

PRESERVATIVE METHOD

# CONTAINERS

FILTERED (Y/N)

DATE

TIME

WATER

SOIL

HCL

HNO<sub>3</sub>

ICE

LAB USE ONLY

REMARKS:

LAB USE ONLY

SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

SW-11 (0-6.5') ✓

SW-12 (0-6.5') ✓

SW-13 (0-6.5') ✓

SW-14 (0-6.5') ✓

SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

3/1/2023

3/1/2023

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3/1/2023

SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

SW-11 (0-6.5') ✓

SW-12 (0-6.5') ✓

SW-13 (0-6.5') ✓

SW-14 (0-6.5') ✓

SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

SW-11 (0-6.5') ✓

SW-12 (0-6.5') ✓

SW-13 (0-6.5') ✓

SW-14 (0-6.5') ✓

SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

SW-11 (0-6.5') ✓

SW-12 (0-6.5') ✓

SW-13 (0-6.5') ✓

SW-14 (0-6.5') ✓

SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

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SW-12 (0-6.5') ✓

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SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

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SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

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SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

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SW-9 (0-6.5') ✓

SW-10 (0-6.5') ✓

SW-11 (0-6.5') ✓

SW-12 (0-6.5') ✓

SW-13 (0-6.5') ✓

SW-14 (0-6.5') ✓

SW-15 (0-6.5') ✓

SW-16 (0-6.5') ✓

BTM-1 (6.5') ✓

BTM-2 (6.5') ✓

3/1/2023</



### **Analysis Request of Chain of Custody Record**

# Tetra Tech, Inc.

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

Page 3 of 3

Client Name:

Western Midstream

Site Manager:

John Faught

Project Name:

Red Hills Phase 2 and 3

Project Location:

Eddy County

Project #:

212C-MD-02853

Invoice to:

Tetra Tech, Inc.

Receiving Laboratory:

Eurofins

Sampler Signature:

*Garriel Hunt*

Comments:

Email: john.faught@tetratech.com; russell.weigand@tetratech.com

## SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

SAMPLING  
YEAR  
DATE  
TIME

MATRIX  
WATER  
SOIL  
HCL  
HNO<sub>3</sub>  
ICE

PRESERVATIVE  
METHOD

# CONTAINERS  
FILTERED (Y/N)

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 SM 4500  
Chloride Sulfate TDS  
General Water Chemistry (see attached list)  
Anion/Cation Balance

Hold

ANALYSIS REQUEST  
(Circle or Specify Method No.)

85357

Relinquished by:

Gabriel Huerta

3-2-23

0530

Received by:

*John Faught*

Date Time

3-2-23

1010

Relinquished by:

Relinquished by:

Date Time

Received by:

Date Time

LAB USE ONLY

Sample Temperature

57/54

-0.3

REMARKS:

Standard

☐ RUSH Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #



## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-25357-1

SDG Number: Eddy Co, NM

Login Number: 25357

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.	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: 880-25357-1

SDG Number: Eddy Co, NM

Login Number: 25357

List Number: 2

Creator: Canadilla, Surelis

List Source: Eurofins Houston

List Creation: 03/08/23 02:03 PM

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?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	





Environment Testing

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- 2
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# ANALYTICAL REPORT

## PREPARED FOR

Attn: John Faught  
Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Generated 4/3/2023 4:12:52 PM

## JOB DESCRIPTION

Red Hills Phase 2 and 3  
SDG NUMBER Eddy County, NM

## JOB NUMBER

880-26265-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701



# Eurofins Midland

## Job Notes

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

## Authorization



Generated  
4/3/2023 4:12:52 PM

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



Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Laboratory Job ID: 880-26265-1  
SDG: Eddy County, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	18
QC Sample Results . . . . .	20
QC Association Summary . . . . .	25
Lab Chronicle . . . . .	29
Certification Summary . . . . .	34
Method Summary . . . . .	35
Sample Summary . . . . .	36
Chain of Custody . . . . .	37
Receipt Checklists . . . . .	41

1

2

3

4

5

6

7

8

9

10

11

12

13

14



## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Job ID: 880-26265-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-26265-1
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Receipt

The samples were received on 3/22/2023 4:58 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 5.0°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-49794 and 880-49931 and analytical batch 880-49998 was outside the upper control limits.

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

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.

1
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3
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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-3-2 (0-6.5')

Lab Sample ID: 880-26265-1

Date Collected: 03/22/23 10:00

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 19:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/30/23 12:19	04/02/23 19:28	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/30/23 12:19	04/02/23 19:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 12:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 12:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 12:13	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/27/23 16:21	03/28/23 12:13	1
o-Terphenyl	96		70 - 130	03/27/23 16:21	03/28/23 12:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	209		5.03		mg/Kg			03/31/23 10:33	1

Client Sample ID: SW-4-2 (0-6.5')

Lab Sample ID: 880-26265-2

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 19:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 19:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 19:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 19:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 19:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/30/23 12:19	04/02/23 19:54	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/30/23 12:19	04/02/23 19:54	1

Eurofins Midland



## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-4-2 (0-6.5')

Lab Sample ID: 880-26265-2

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 13:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 13:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 13:18	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 13:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/27/23 16:21	03/28/23 13:18	1
o-Terphenyl	99		70 - 130	03/27/23 16:21	03/28/23 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		5.05		mg/Kg			03/31/23 10:46	1

Client Sample ID: SW-6-2 (0-6.5')

Lab Sample ID: 880-26265-3

Date Collected: 03/22/23 10:20

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 20:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 20:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 20:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 20:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 20:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/30/23 12:19	04/02/23 20:20	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/30/23 12:19	04/02/23 20:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 13:40	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-6-2 (0-6.5')

Lab Sample ID: 880-26265-3

Date Collected: 03/22/23 10:20

Matrix: Solid

Date Received: 03/22/23 16:58

## Method: SW846 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		03/27/23 16:21	03/28/23 13:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 13:40	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/27/23 16:21	03/28/23 13:40	1
o-Terphenyl	90		70 - 130	03/27/23 16:21	03/28/23 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		4.99		mg/Kg			03/31/23 10:51	1

Client Sample ID: SW-7-2 (0-6.5')

Lab Sample ID: 880-26265-4

Date Collected: 03/22/23 10:30

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/30/23 12:19	04/02/23 20:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/30/23 12:19	04/02/23 20:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/30/23 12:19	04/02/23 20:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/30/23 12:19	04/02/23 20:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/30/23 12:19	04/02/23 20:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/30/23 12:19	04/02/23 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/30/23 12:19	04/02/23 20:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/30/23 12:19	04/02/23 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:01	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/27/23 16:21	03/28/23 14:01	1
o-Terphenyl	89		70 - 130	03/27/23 16:21	03/28/23 14:01	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-7-2 (0-6.5')

Lab Sample ID: 880-26265-4

Date Collected: 03/22/23 10:30

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		25.0		mg/Kg			03/31/23 10:55	5

Client Sample ID: SW-9-2 (0-6.5')

Lab Sample ID: 880-26265-5

Date Collected: 03/22/23 10:40

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 21:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/30/23 12:19	04/02/23 21:12	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/30/23 12:19	04/02/23 21:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:22	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	03/27/23 16:21	03/28/23 14:22	1
o-Terphenyl	109		70 - 130	03/27/23 16:21	03/28/23 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		25.0		mg/Kg			03/31/23 11:00	5

Client Sample ID: SW-11-2 (0-6.5')

Lab Sample ID: 880-26265-6

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:39	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-11-2 (0-6.5')

Lab Sample ID: 880-26265-6

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 21:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/02/23 21:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/02/23 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/30/23 12:19	04/02/23 21:39	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/30/23 12:19	04/02/23 21:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 14:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 14:43	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/27/23 16:21	03/28/23 14:43	1
o-Terphenyl	103		70 - 130				03/27/23 16:21	03/28/23 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.5		5.03		mg/Kg			03/31/23 11:14	1

Client Sample ID: SW-13-2 (0-6.5')

Lab Sample ID: 880-26265-7

Date Collected: 03/22/23 11:00

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/02/23 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/30/23 12:19	04/02/23 22:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130				03/30/23 12:19	04/02/23 22:06	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-13-2 (0-6.5')

Lab Sample ID: 880-26265-7

Date Collected: 03/22/23 11:00

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 15:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 15:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 15:05	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/27/23 16:21	03/28/23 15:05	1
o-Terphenyl	99		70 - 130	03/27/23 16:21	03/28/23 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.9		5.02		mg/Kg			03/31/23 11:18	1

Client Sample ID: SW-14-2 (0-6.5')

Lab Sample ID: 880-26265-8

Date Collected: 03/22/23 11:10

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/02/23 22:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/02/23 22:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/02/23 22:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/30/23 12:19	04/02/23 22:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/02/23 22:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/30/23 12:19	04/02/23 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/30/23 12:19	04/02/23 22:33	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/30/23 12:19	04/02/23 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:26	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-14-2 (0-6.5')

Lab Sample ID: 880-26265-8

Date Collected: 03/22/23 11:10

Matrix: Solid

Date Received: 03/22/23 16:58

## Method: SW846 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		03/27/23 16:21	03/28/23 15:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:26	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/27/23 16:21	03/28/23 15:26	1
o-Terphenyl	100		70 - 130	03/27/23 16:21	03/28/23 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	684		5.05		mg/Kg			03/31/23 11:23	1

Client Sample ID: SW-17 (0-6.5')

Lab Sample ID: 880-26265-9

Date Collected: 03/22/23 11:20

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/02/23 23:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/02/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/30/23 12:19	04/02/23 23:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/30/23 12:19	04/02/23 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:47	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/23 16:21	03/28/23 15:47	1
o-Terphenyl	102		70 - 130	03/27/23 16:21	03/28/23 15:47	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-17 (0-6.5')

Lab Sample ID: 880-26265-9

Date Collected: 03/22/23 11:20

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.97		mg/Kg			03/31/23 11:27	1

Client Sample ID: SW-18 (0-6.5')

Lab Sample ID: 880-26265-10

Date Collected: 03/22/23 11:30

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/30/23 12:19	04/02/23 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				03/30/23 12:19	04/02/23 23:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/30/23 12:19	04/02/23 23:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 16:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 16:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 16:18	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/27/23 16:21	03/28/23 16:18	1
o-Terphenyl	104		70 - 130				03/27/23 16:21	03/28/23 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.5		4.95		mg/Kg			03/31/23 11:32	1

Client Sample ID: SW-19 (0-6.5')

Lab Sample ID: 880-26265-11

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:10	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-19 (0-6.5')

Lab Sample ID: 880-26265-11

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/03/23 01:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/03/23 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/30/23 12:19	04/03/23 01:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130				03/30/23 12:19	04/03/23 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 17:26	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				03/27/23 16:21	03/28/23 17:26	1
o-Terphenyl	96		70 - 130				03/27/23 16:21	03/28/23 17:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.95		mg/Kg			03/31/23 11:37	1

Client Sample ID: SW-20 (0-6.5')

Lab Sample ID: 880-26265-12

Date Collected: 03/22/23 11:50

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/30/23 12:19	04/03/23 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/30/23 12:19	04/03/23 01:37	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/30/23 12:19	04/03/23 01:37	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-20 (0-6.5')

Lab Sample ID: 880-26265-12

Date Collected: 03/22/23 11:50

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 17:47	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/27/23 16:21	03/28/23 17:47	1
o-Terphenyl	93		70 - 130	03/27/23 16:21	03/28/23 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.99		mg/Kg			03/31/23 11:50	1

Client Sample ID: BTM-6 (6.5')

Lab Sample ID: 880-26265-13

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/03/23 02:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/03/23 02:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/03/23 02:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/03/23 02:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/03/23 02:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/30/23 12:19	04/03/23 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/30/23 12:19	04/03/23 02:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/30/23 12:19	04/03/23 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 18:08	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: BTM-6 (6.5')

Lab Sample ID: 880-26265-13

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 16:58

## Method: SW846 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		03/27/23 16:21	03/28/23 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 18:08	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/23 16:21	03/28/23 18:08	1
o-Terphenyl	103		70 - 130	03/27/23 16:21	03/28/23 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		25.2		mg/Kg			03/31/23 11:55	5

Client Sample ID: BTM-7 (6.5')

Lab Sample ID: 880-26265-14

Date Collected: 03/22/23 12:10

Matrix: Solid

Date Received: 03/22/23 16:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/03/23 02:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/03/23 02:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/03/23 02:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/30/23 12:19	04/03/23 02:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/30/23 12:19	04/03/23 02:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/30/23 12:19	04/03/23 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/30/23 12:19	04/03/23 02:30	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/30/23 12:19	04/03/23 02:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/03/23 16:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/23 12:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 18:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 18:28	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/23 16:21	03/28/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/27/23 16:21	03/28/23 18:28	1
o-Terphenyl	96		70 - 130	03/27/23 16:21	03/28/23 18:28	1

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Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: BTM-7 (6.5')  
Date Collected: 03/22/23 12:10  
Date Received: 03/22/23 16:58

Lab Sample ID: 880-26265-14  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.9		4.98		mg/Kg			03/31/23 12:36	1

- 1
- 2
- 3
- 4
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-26265-1	SW-3-2 (0-6.5')	102	90				
880-26265-1 MS	SW-3-2 (0-6.5')	93	85				
880-26265-1 MSD	SW-3-2 (0-6.5')	97	101				
880-26265-2	SW-4-2 (0-6.5')	117	87				
880-26265-3	SW-6-2 (0-6.5')	110	95				
880-26265-4	SW-7-2 (0-6.5')	109	96				
880-26265-5	SW-9-2 (0-6.5')	115	97				
880-26265-6	SW-11-2 (0-6.5')	105	92				
880-26265-7	SW-13-2 (0-6.5')	113	94				
880-26265-8	SW-14-2 (0-6.5')	112	83				
880-26265-9	SW-17 (0-6.5')	109	92				
880-26265-10	SW-18 (0-6.5')	114	92				
880-26265-11	SW-19 (0-6.5')	104	86				
880-26265-12	SW-20 (0-6.5')	118	93				
880-26265-13	BTM-6 (6.5')	121	88				
880-26265-14	BTM-7 (6.5')	116	87				
LCS 880-49931/1-A	Lab Control Sample	108	106				
LCSD 880-49931/2-A	Lab Control Sample Dup	109	104				
MB 880-49794/5-A	Method Blank	66 S1-	86				
MB 880-49931/5-A	Method Blank	68 S1-	85				
<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)				
880-26265-1	SW-3-2 (0-6.5')	103	96				
880-26265-1 MS	SW-3-2 (0-6.5')	95	77				
880-26265-1 MSD	SW-3-2 (0-6.5')	94	77				
880-26265-2	SW-4-2 (0-6.5')	107	99				
880-26265-3	SW-6-2 (0-6.5')	97	90				
880-26265-4	SW-7-2 (0-6.5')	96	89				
880-26265-5	SW-9-2 (0-6.5')	115	109				
880-26265-6	SW-11-2 (0-6.5')	111	103				
880-26265-7	SW-13-2 (0-6.5')	106	99				
880-26265-8	SW-14-2 (0-6.5')	107	100				
880-26265-9	SW-17 (0-6.5')	112	102				
880-26265-10	SW-18 (0-6.5')	109	104				
880-26265-11	SW-19 (0-6.5')	102	96				
880-26265-12	SW-20 (0-6.5')	100	93				
880-26265-13	BTM-6 (6.5')	112	103				
880-26265-14	BTM-7 (6.5')	107	96				
LCS 880-49659/2-A	Lab Control Sample	99	88				
LCSD 880-49659/3-A	Lab Control Sample Dup	87	78				
MB 880-49659/1-A	Method Blank	109	105				

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Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Surrogate Legend

1CO = 1-Chlorooctane  
OTPH = o-Terphenyl

1
2
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12
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14



## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-49794/5-A

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/29/23 09:13	04/02/23 05:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/29/23 09:13	04/02/23 05:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	03/29/23 09:13	04/02/23 05:12	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/29/23 09:13	04/02/23 05:12	1

Lab Sample ID: MB 880-49931/5-A

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49931

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/30/23 12:19	04/02/23 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/30/23 12:19	04/02/23 19:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/30/23 12:19	04/02/23 19:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	03/30/23 12:19	04/02/23 19:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/30/23 12:19	04/02/23 19:01	1

Lab Sample ID: LCS 880-49931/1-A

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49931

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1292		mg/Kg		129	70 - 130
Toluene	0.100	0.1097		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1101		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2217		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1146		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-49931/2-A

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49931

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1277		mg/Kg		128	70 - 130	1	35

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-49931/2-A

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49931

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1131		mg/Kg		113	70 - 130	3	35
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2302		mg/Kg		115	70 - 130	4	35
o-Xylene	0.100	0.1231		mg/Kg		123	70 - 130	7	35

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

Lab Sample ID: 880-26265-1 MS

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 49931

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08374		mg/Kg		84	70 - 130
Toluene	<0.00200	U	0.0998	0.07839		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07736		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1550		mg/Kg		78	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08008		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-26265-1 MSD

Matrix: Solid

Analysis Batch: 49998

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 49931

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1009		mg/Kg		102	70 - 130	19	35
Toluene	<0.00200	U	0.0990	0.07947		mg/Kg		80	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0990	0.08012		mg/Kg		81	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1622		mg/Kg		82	70 - 130	5	35
o-Xylene	<0.00200	U	0.0990	0.08302		mg/Kg		84	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-49659/1-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49659

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		03/27/23 16:21	03/28/23 09:44	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-49659/1-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 09:44	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/23 16:21	03/28/23 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/27/23 16:21	03/28/23 09:44	1
o-Terphenyl	105		70 - 130	03/27/23 16:21	03/28/23 09:44	1

Lab Sample ID: LCS 880-49659/2-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	963.9		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	1000	956.4		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-49659/3-A

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49659

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	810.8		mg/Kg		81	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	842.5		mg/Kg		84	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 880-26265-1 MS

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 49659

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	1041		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	767.5		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	95		70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

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

Lab Sample ID: 880-26265-1 MS

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 49659

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	77		70 - 130

Lab Sample ID: 880-26265-1 MSD

Matrix: Solid

Analysis Batch: 49696

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Total/NA

Prep Batch: 49659

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1046		mg/Kg		102	70 - 130	0
Diesel Range Organics (Over C10-C28)	<49.9	U	999	754.3		mg/Kg		74	70 - 130	2
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	94		70 - 130							
<i>o</i> -Terphenyl	77		70 - 130							

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50002/1-A

Matrix: Solid

Analysis Batch: 50028

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			03/31/23 10:19	1	

Lab Sample ID: LCS 880-50002/2-A

Matrix: Solid

Analysis Batch: 50028

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	228.3		mg/Kg		91	90 - 110		

Lab Sample ID: LCSD 880-50002/3-A

Matrix: Solid

Analysis Batch: 50028

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	229.1		mg/Kg		92	90 - 110	0	20	

Lab Sample ID: 880-26265-1 MS

Matrix: Solid

Analysis Batch: 50028

Client Sample ID: SW-3-2 (0-6.5')

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	209		252	436.3		mg/Kg		90	90 - 110	

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QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-26265-1 MSD					Client Sample ID: SW-3-2 (0-6.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 50028												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	209		252	438.0		mg/Kg		91	90 - 110	0	20	

Lab Sample ID: 880-26265-11 MS					Client Sample ID: SW-19 (0-6.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 50028												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	156		248	387.1		mg/Kg		93	90 - 110			

Lab Sample ID: 880-26265-11 MSD					Client Sample ID: SW-19 (0-6.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 50028												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	156		248	387.8		mg/Kg		93	90 - 110	0	20	



## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

## GC VOA

## Prep Batch: 49794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49794/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 49931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	5035	
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	5035	
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	5035	
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	5035	
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	5035	
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	5035	
MB 880-49931/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49931/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49931/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26265-1 MS	SW-3-2 (0-6.5')	Total/NA	Solid	5035	
880-26265-1 MSD	SW-3-2 (0-6.5')	Total/NA	Solid	5035	

## Analysis Batch: 49998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	8021B	49931
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	8021B	49931
MB 880-49794/5-A	Method Blank	Total/NA	Solid	8021B	49794
MB 880-49931/5-A	Method Blank	Total/NA	Solid	8021B	49931
LCS 880-49931/1-A	Lab Control Sample	Total/NA	Solid	8021B	49931
LCSD 880-49931/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49931
880-26265-1 MS	SW-3-2 (0-6.5')	Total/NA	Solid	8021B	49931
880-26265-1 MSD	SW-3-2 (0-6.5')	Total/NA	Solid	8021B	49931

## Analysis Batch: 50254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

## GC VOA (Continued)

## Analysis Batch: 50254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	Total BTEX	
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	Total BTEX	
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 49659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	8015NM Prep	
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	8015NM Prep	
MB 880-49659/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49659/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26265-1 MS	SW-3-2 (0-6.5')	Total/NA	Solid	8015NM Prep	
880-26265-1 MSD	SW-3-2 (0-6.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 49696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	8015B NM	49659

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

## GC Semi VOA (Continued)

## Analysis Batch: 49696 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	8015B NM	49659
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	8015B NM	49659
MB 880-49659/1-A	Method Blank	Total/NA	Solid	8015B NM	49659
LCS 880-49659/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49659
LCSD 880-49659/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49659
880-26265-1 MS	SW-3-2 (0-6.5')	Total/NA	Solid	8015B NM	49659
880-26265-1 MSD	SW-3-2 (0-6.5')	Total/NA	Solid	8015B NM	49659

## Analysis Batch: 49826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-2	SW-4-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-3	SW-6-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-4	SW-7-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-5	SW-9-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-6	SW-11-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-7	SW-13-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-8	SW-14-2 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-9	SW-17 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-10	SW-18 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-11	SW-19 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-12	SW-20 (0-6.5')	Total/NA	Solid	8015 NM	
880-26265-13	BTM-6 (6.5')	Total/NA	Solid	8015 NM	
880-26265-14	BTM-7 (6.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 50002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-2	SW-4-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-3	SW-6-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-4	SW-7-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-5	SW-9-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-6	SW-11-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-7	SW-13-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-8	SW-14-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-9	SW-17 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-10	SW-18 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-11	SW-19 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-12	SW-20 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-13	BTM-6 (6.5')	Soluble	Solid	DI Leach	
880-26265-14	BTM-7 (6.5')	Soluble	Solid	DI Leach	
MB 880-50002/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50002/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50002/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26265-1 MS	SW-3-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-1 MSD	SW-3-2 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-11 MS	SW-19 (0-6.5')	Soluble	Solid	DI Leach	
880-26265-11 MSD	SW-19 (0-6.5')	Soluble	Solid	DI Leach	

Eurofins Midland



## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

## HPLC/IC

## Analysis Batch: 50028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26265-1	SW-3-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-2	SW-4-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-3	SW-6-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-4	SW-7-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-5	SW-9-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-6	SW-11-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-7	SW-13-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-8	SW-14-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-9	SW-17 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-10	SW-18 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-11	SW-19 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-12	SW-20 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-13	BTM-6 (6.5')	Soluble	Solid	300.0	50002
880-26265-14	BTM-7 (6.5')	Soluble	Solid	300.0	50002
MB 880-50002/1-A	Method Blank	Soluble	Solid	300.0	50002
LCS 880-50002/2-A	Lab Control Sample	Soluble	Solid	300.0	50002
LCSD 880-50002/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50002
880-26265-1 MS	SW-3-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-1 MSD	SW-3-2 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-11 MS	SW-19 (0-6.5')	Soluble	Solid	300.0	50002
880-26265-11 MSD	SW-19 (0-6.5')	Soluble	Solid	300.0	50002



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-3-2 (0-6.5')

Lab Sample ID: 880-26265-1

Date Collected: 03/22/23 10:00

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 12:13	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 10:33	SMC	EET MID

Client Sample ID: SW-4-2 (0-6.5')

Lab Sample ID: 880-26265-2

Date Collected: 03/22/23 10:10

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 19:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 10:46	SMC	EET MID

Client Sample ID: SW-6-2 (0-6.5')

Lab Sample ID: 880-26265-3

Date Collected: 03/22/23 10:20

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 13:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 10:51	SMC	EET MID

Client Sample ID: SW-7-2 (0-6.5')

Lab Sample ID: 880-26265-4

Date Collected: 03/22/23 10:30

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-7-2 (0-6.5')

Lab Sample ID: 880-26265-4

Date Collected: 03/22/23 10:30

Matrix: Solid

Date Received: 03/22/23 16:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 14:01	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50028	03/31/23 10:55	SMC	EET MID

Client Sample ID: SW-9-2 (0-6.5')

Lab Sample ID: 880-26265-5

Date Collected: 03/22/23 10:40

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 21:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 14:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50028	03/31/23 11:00	SMC	EET MID

Client Sample ID: SW-11-2 (0-6.5')

Lab Sample ID: 880-26265-6

Date Collected: 03/22/23 10:50

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 21:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 14:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:14	SMC	EET MID

Client Sample ID: SW-13-2 (0-6.5')

Lab Sample ID: 880-26265-7

Date Collected: 03/22/23 11:00

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 22:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 15:05	SM	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-13-2 (0-6.5')

Lab Sample ID: 880-26265-7

Date Collected: 03/22/23 11:00

Matrix: Solid

Date Received: 03/22/23 16:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:18	SMC	EET MID

Client Sample ID: SW-14-2 (0-6.5')

Lab Sample ID: 880-26265-8

Date Collected: 03/22/23 11:10

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 22:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 15:26	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:23	SMC	EET MID

Client Sample ID: SW-17 (0-6.5')

Lab Sample ID: 880-26265-9

Date Collected: 03/22/23 11:20

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 15:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:27	SMC	EET MID

Client Sample ID: SW-18 (0-6.5')

Lab Sample ID: 880-26265-10

Date Collected: 03/22/23 11:30

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/02/23 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 16:18	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:32	SMC	EET MID

Eurofins Midland



## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: SW-19 (0-6.5')

Lab Sample ID: 880-26265-11

Date Collected: 03/22/23 11:40

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/03/23 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:37	SMC	EET MID

Client Sample ID: SW-20 (0-6.5')

Lab Sample ID: 880-26265-12

Date Collected: 03/22/23 11:50

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/03/23 01:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 17:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 11:50	SMC	EET MID

Client Sample ID: BTM-6 (6.5')

Lab Sample ID: 880-26265-13

Date Collected: 03/22/23 12:00

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/03/23 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	50028	03/31/23 11:55	SMC	EET MID

Client Sample ID: BTM-7 (6.5')

Lab Sample ID: 880-26265-14

Date Collected: 03/22/23 12:10

Matrix: Solid

Date Received: 03/22/23 16:58

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	49931	03/30/23 12:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49998	04/03/23 02:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50254	04/03/23 16:27	SM	EET MID

Eurofins Midland



Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Client Sample ID: BTM-7 (6.5')  
Date Collected: 03/22/23 12:10  
Date Received: 03/22/23 16:58

Lab Sample ID: 880-26265-14  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49826	03/29/23 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49659	03/27/23 16:21	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49696	03/28/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50002	03/31/23 08:54	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50028	03/31/23 12:36	SMC	EET MID

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



Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Red Hills Phase 2 and 3

Job ID: 880-26265-1  
SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26265-1	SW-3-2 (0-6.5')	Solid	03/22/23 10:00	03/22/23 16:58
880-26265-2	SW-4-2 (0-6.5')	Solid	03/22/23 10:10	03/22/23 16:58
880-26265-3	SW-6-2 (0-6.5')	Solid	03/22/23 10:20	03/22/23 16:58
880-26265-4	SW-7-2 (0-6.5')	Solid	03/22/23 10:30	03/22/23 16:58
880-26265-5	SW-9-2 (0-6.5')	Solid	03/22/23 10:40	03/22/23 16:58
880-26265-6	SW-11-2 (0-6.5')	Solid	03/22/23 10:50	03/22/23 16:58
880-26265-7	SW-13-2 (0-6.5')	Solid	03/22/23 11:00	03/22/23 16:58
880-26265-8	SW-14-2 (0-6.5')	Solid	03/22/23 11:10	03/22/23 16:58
880-26265-9	SW-17 (0-6.5')	Solid	03/22/23 11:20	03/22/23 16:58
880-26265-10	SW-18 (0-6.5')	Solid	03/22/23 11:30	03/22/23 16:58
880-26265-11	SW-19 (0-6.5')	Solid	03/22/23 11:40	03/22/23 16:58
880-26265-12	SW-20 (0-6.5')	Solid	03/22/23 11:50	03/22/23 16:58
880-26265-13	BTM-6 (6.5')	Solid	03/22/23 12:00	03/22/23 16:58
880-26265-14	BTM-7 (6.5')	Solid	03/22/23 12:10	03/22/23 16:58



Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client Name	Western Midstream	Site Manager	John Faught
Project Name	Red Hills Phase 2 and 3		
Project Location (county, state)	Eddy County, NM	Project #	212C-MD-02853
Invoice to	Tetra Tech, Inc.		
Receiving Laboratory	Eurofins	Sampler Signature	<i>Gabriel Huerta</i>
Comments	Email john.faught@tetratech.com, clair.gonzales@tetratech.com		

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		YEAR	DATE	TIME	WATER	SOIL	HCL			HNO <sub>3</sub>	ICE
	SW-3-2 (0-6.5)		3-22-23	10:00	X			X	1		
	SW-4-2 (0-6.5)			10:10	X			X	1		
	SW-6-2 (0-6.5)			10:20	X			X	1		
	SW-7-2 (0-6.5)			10:30	X			X	1		
	SW-9-2 (0-6.5)			10:40	X			X	1		
	SW-11-2 (0-6.5)			10:50	X			X	1		
	SW-13-2 (0-6.5)			11:00	X			X	1		
	SW-14-2 (0-6.5)			11:10	X			X	1		
	SW-17 (0-6.5)			11:20	X			X	1		
	SW-18 (0-6.5)			11:30	X			X	1		

Relinquished by:	Date	Time	Received by:	Date	Time
Gabriel Huerta	3-22-23	1653	<i>[Signature]</i>	3/22/23	1658
Relinquished by:	Date	Time	Received by:	Date	Time

ORIGINAL COPY

LAB USE ONLY	REMARKS:	BTEX 8021B BTEX 8260B	
		TPH TX1005 (Ext to C35)	
Sample Temperature	5.35.0	TPH 8015M ( GRO - DRO - ORO - MRO)	
		PAH 8270C	
402		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 8260B	
		Chloride Sulfate TDS	
		General Water Chemistry (see attached list)	
		Anion/Cation Balance	

Hold



860-26265 Chain of Custody



### **Analysis Request of Chain of Custody Record**

[illegible]



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name	Western Midstream	Site Manager	John Faught				
Project Name	Red Hills Phase 2 and 3	Project #	212C-MD-02853				
Project Location (county, state)	Eddy County, NM	Invoice to	Tetra Tech, Inc.				
Receiving Laboratory	Eurofins	Sampler Signature	<i>Gabriel Huerta</i>				
Comments	Email john.faught@tetratech.com, clair.gonzales@tetratech.com						
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)	
	SW-3-2 (0-6.5')	3-22-23	10:00	X	X	1	
	SW-4-2 (0-6.5')		10:10	X	X	1	
	SW-6-2 (0-6.5')		10:20	X	X	1	
	SW-7-2 (0-6.5')		10:30	X	X	1	
	SW-9-2 (0-6.5')		10:40	X	X	1	
	SW-11-2 (0-6.5')		10:50	X	X	1	
	SW-13-2 (0-6.5')		11:00	X	X	1	
	SW-14-2 (0-6.5')		11:10	X	X	1	
	SW-17 (0-6.5')		11:20	X	X	1	
	SW-18 (0-6.5')		11:30	X	X	1	
Relinquished by	Date	Time	Received by	Date	Time		
Gabriel Huerta	3-22-23	1653	<i>[Signature]</i>	3/22/23	1658		
Relinquished by	Date	Time	Received by	Date	Time		
Relinquished by	Date	Time	Received by	Date	Time		

(Circle)

880-26265 Chain of Custody



Page 1 of 2

4/3/2023

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LAB USE ONLY	REMARKS:
Sample Temperature 53.5.0	<i>Standard</i>
402	<input type="checkbox"/> RUSH Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #



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ORIGINAL COPY



## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-26265-1  
SDG Number: Eddy County, NM

Login Number: 26265

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.	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	





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 21, 2023

JOHN FAUGHT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RED HILLS PHASE 2 AND 3

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 JOHN FAUGHT  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	RED HILLS PHASE 2 AND 3	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: SW - 7-3 (0-7') (H231899-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	04/19/2023	ND	1.92	96.0	2.00	15.2		
Toluene*	<0.050	0.050	04/19/2023	ND	1.99	99.7	2.00	14.4		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.07	103	2.00	15.6		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.32	105	6.00	14.9		
Total BTEX	<0.275	0.275	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/20/2023	ND	400	100	400	7.69		

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	04/20/2023	ND	171	85.6	200	0.236	
DRO >C12-C28	<25.0	25.0	04/20/2023	ND	164	81.8	200	1.56	
DRO >C28-C35	<25.0	25.0	04/20/2023	ND					
Total TPH C6-C35*	<25.0	25.0	04/20/2023	ND	335	83.7	400	0.648	

Surrogate: 1-Chlorooctane 95.9 % 44.9-134

Surrogate: 1-Chlorooctadecane 92.3 % 41.4-161

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 JOHN FAUGHT  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 04/19/2023  
 Reported: 04/21/2023  
 Project Name: RED HILLS PHASE 2 AND 3  
 Project Number: 212C-MD-02853  
 Project Location: WESTERN - EDDY CO NM

Sampling Date: 04/19/2023  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 9-3 (0-7') (H231899-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	04/19/2023	ND	1.92	96.0	2.00	15.2		
Toluene*	<0.050	0.050	04/19/2023	ND	1.99	99.7	2.00	14.4		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.07	103	2.00	15.6		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.32	105	6.00	14.9		
Total BTX	<0.275	0.275	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/20/2023	ND	400	100	400	7.69	

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	04/20/2023	ND	171	85.6	200	0.236	
DRO >C12-C28	<25.0	25.0	04/20/2023	ND	164	81.8	200	1.56	
DRO >C28-C35	<25.0	25.0	04/20/2023	ND					
Total TPH C6-C35*	<25.0	25.0	04/20/2023	ND	335	83.7	400	0.648	

Surrogate: 1-Chlorooctane 88.7 % 44.9-134

Surrogate: 1-Chlorooctadecane 85.1 % 41.4-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
JOHN FAUGHT  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701  
Fax To: (432) 682-3946

Received: 04/19/2023  
Reported: 04/21/2023  
Project Name: RED HILLS PHASE 2 AND 3  
Project Number: 212C-MD-02853  
Project Location: WESTERN - EDDY CO NM

Sampling Date: 04/19/2023  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 14-3 (0-6.5') (H231899-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	04/19/2023	ND	1.92	96.0	2.00	15.2		
Toluene*	<0.050	0.050	04/19/2023	ND	1.99	99.7	2.00	14.4		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.07	103	2.00	15.6		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.32	105	6.00	14.9		
Total BTX	<0.275	0.275	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/20/2023	ND	400	100	400	7.69		

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	04/20/2023	ND	171	85.6	200	0.236	
DRO >C12-C28	<25.0	25.0	04/20/2023	ND	164	81.8	200	1.56	
DRO >C28-C35	<25.0	25.0	04/20/2023	ND					
Total TPH C6-C35*	<25.0	25.0	04/20/2023	ND	335	83.7	400	0.648	

Surrogate: 1-Chlorooctane 86.7 % 44.9-134

Surrogate: 1-Chlorooctadecane 80.0 % 41.4-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TETRA TECH  
 JOHN FAUGHT  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received:	04/19/2023	Sampling Date:	04/19/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	RED HILLS PHASE 2 AND 3	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02853	Sample Received By:	Tamara Oldaker
Project Location:	WESTERN - EDDY CO NM		

**Sample ID: BTM - 6 (7') (H231899-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	04/19/2023	ND	1.92	96.0	2.00	15.2		
Toluene*	<0.050	0.050	04/19/2023	ND	1.99	99.7	2.00	14.4		
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.07	103	2.00	15.6		
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.32	105	6.00	14.9		
Total BTEX	<0.275	0.275	04/19/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/20/2023	ND	400	100	400	7.69	

TPH TX1005		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<25.0	25.0	04/20/2023	ND	171	85.6	200	0.236	
DRO >C12-C28	<25.0	25.0	04/20/2023	ND	164	81.8	200	1.56	
DRO >C28-C35	<25.0	25.0	04/20/2023	ND					
Total TPH C6-C35*	<25.0	25.0	04/20/2023	ND	335	83.7	400	0.648	

Surrogate: 1-Chlorooctane 88.6 % 44.9-134

Surrogate: 1-Chlorooctadecane 86.1 % 41.4-161

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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---

### Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



### Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

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

Page \_\_\_\_\_ of \_\_\_\_\_

Page 7 of 7

Client Name:		Western Midstream						Site Manager:		John Faught		
Project Name:		Red Hills Phase 2 and 3										
Project Location: (county, state)		Eddy County, NM						Project #:		212C-MD-02853		
Invoice to:		Tetra Tech, Inc.						Sampler Signature:				
Receiving Laboratory:		Cardinal Laboratories										
Comments:		Email: john.faught@tetratech.com; clair.gonzales@tetratech.com										
H231899 LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		
				YEAR	DATE	TIME						
		1	SW-7-3 (0-7')	4/19/23	11:30 AM	X			X			1
		2	SW-9-3 (0-7')		11:45 AM	X			X			1
		3	SW-14-3 (0-6.5')		12:00 PM	X			X			1
		4	BTM-6 (7')		12:15 PM	X			X			1
Relinquished by: <i>Brady Vaughan</i>		Date:	Time:	Received by: <i>Laura Slater</i>		Date:	Time:					
Relinquished by:		Date:	Time:	Received by:		Date:	Time:					
Date:		Time:	Received by:		Date:	Time:						

ANALYSIS REQUEST  
(Circle or Specify Method No.)[illegible]

ORIGINAL COPY



**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 213626

CONDITIONS

Operator: DELAWARE BASIN MIDSTREAM, LLC 9950 Woodloch Forest Drive The Woodlands, TX 77380	OGRID: 314437
	Action Number: 213626
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2121527146 RED HILLS PHASE 2, thank you. This closure is approved.	9/21/2023