

Volume calculator

There was no volume calculator prepared when the spill occurred.

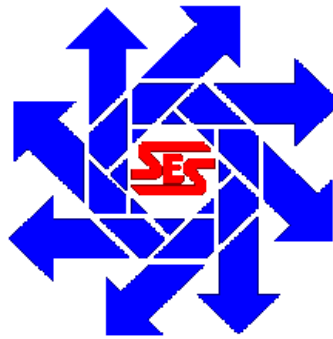
Devon Energy Production Company

Work Plan

NRM2014561795

REMUDA BASIN 20 FED 1 SWD @ 30-015-29549

May 6, 2024



Prepared for:

**Devon Energy Production Company
6488 Seven Rivers Hwy
Artesia, New Mexico 88211**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240**

Company Contacts

Representative	Company	Telephone	E-mail
Dale Woodall	Devon Energy	575-748-1838	Dale.Woodall@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

The Remuda Basin SWD is located approximately twenty-seven (27) miles southeast of Carlsbad, New Mexico. The legal location for this facility is Unit Letter D, Section 20, Township 23 South and Range 30 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.2968178 North and -103.9101791 West. This site is in a high Karst area.

Incident C-141 received on 5/20/2020 for release on 12/03/2021. The cause of the release was reported as equipment failure: "Mechanical error, triplex pump broke 3 bolts causing fluid release. Fluid ran off pad onto lease road." approximately 12.82 bbls produced water release with 0 bbls recovered.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 3,000 feet of this release. According to the New Mexico Office of the State Engineer the ground water in this area is approximately 105-feet below ground surface (BGS). SESI will attempt to delineate this release to the most stringent criteria established by NMOCD.

Characterization

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

*Or other test methods approved by the division.

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

According to the Natural Resources Conservation Service' online database, the project area soils consist of Reagan soils. These soils are associated with the Loamy ecological site (R042XC007NM) which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, tarbush, cholla, and creosote. The current vegetative community consists of mesquite, creosote, javelina bush, and desert forbs and grasses. The survey area falls on rolling, rocky hills. The elevation ranges from 3,130 ft. – 3,150 ft. above mean sea level.

Work Performed

In April of 2021, confirmation samples were obtained during different sampling events to conclude the excavation. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The results of the sampling are captured in the table below.

Devon Energy Remuda Basin SWD 1 Hall Environmental Laboratories								
Lab ID 2104533-004: Collection Date-04/08/2021								
Sample ID	Chloride (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)
SP-1 BTM 6"	160	ND	ND	ND	ND	ND	ND	ND
SP-2 EAST WALL	280	ND	ND	ND	ND	ND	ND	ND
SP-3 BTM 6"	150	ND	ND	ND	ND	ND	ND	ND
SP-4 EAST WALL	180	ND	ND	ND	ND	ND	ND	ND
SP-5 BTM 6"	3200	ND	20	67	ND	ND	ND	ND
SP-6 South Wall	290	ND	ND	ND	ND	ND	ND	ND
SP-7 BTM 6"	3100	ND	21	69	ND	ND	ND	ND
SP-8 BTM 6"	960	ND	ND	ND	ND	ND	ND	ND
Lab ID 2104531-004: Collection Date-04/09/2021								
SP-9 South Wall	290	ND	ND	ND	ND	ND	ND	ND
SP-10 South Wall	310	ND	ND	ND	ND	ND	ND	ND
SP-11 BTM 6"	990	ND	ND	ND	ND	ND	ND	ND
SP-12 BTM 6"	940	ND	ND	ND	ND	ND	ND	ND
Lab ID: 2104743-001 Collection Date-04/12/2021								
SP-13 North Wall	120	ND	ND	ND	ND	ND	ND	ND
SP-14 BTM 6"	1200	ND	ND	ND	ND	ND	ND	ND
SP-15 North Wall	100	ND	ND	ND	ND	ND	ND	ND
SP-16 BTM 6"	1400	ND	ND	ND	ND	ND	ND	ND
SP-17 South Wall	310	ND	ND	ND	ND	ND	ND	ND
SP-18 South Wall	120	ND	ND	ND	ND	ND	ND	ND
SP-19 BTM 6"	460	ND	ND	ND	ND	ND	ND	ND
Lab ID 2104742-001: Collection Date-04/13/2021								
SP-20 BTM 6"	1300	ND	ND	ND	ND	ND	ND	ND
SP-21 North Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-22 BTM 6"	1400	ND	ND	ND	ND	ND	ND	ND
SP-23 North Wall	120	ND	ND	ND	ND	ND	ND	ND
SP-24 BTM 6"	1300	ND	ND	ND	ND	ND	ND	ND
SP-25 East Wall	110	ND	ND	ND	ND	ND	ND	ND
SP-26 BTM 6"	1300	ND	ND	ND	ND	ND	ND	ND
SP-27 South Wall	110	ND	ND	ND	ND	ND	ND	ND
Lab ID 2104A77-001: Collection Date-04/22/2021								
SP-28 North Wall	230	ND	ND	ND	ND	ND	ND	ND
SP-29 South Wall	230	ND	ND	ND	ND	ND	ND	ND

Devon Energy Remuda Basin SWD 1 Hall Environmental Laboratories								
Lab ID 2104533-004: Collection Date-04/08/2021								
Sample ID	Chloride (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes, Total (mg/Kg)
SP-30 East Wall	230	ND	ND	ND	ND	ND	ND	ND
SP-31 North Wall	69	ND	ND	ND	ND	ND	ND	ND
SP-32 North Wall	73	ND	ND	ND	ND	ND	ND	ND
SP-33 South Wall	71	ND	ND	ND	ND	ND	ND	ND
SP-34 South Wall	65	ND	ND	ND	ND	ND	ND	ND
SP-35 North Wall	67	ND	ND	ND	ND	ND	ND	ND
SP-36 North Wall	240	ND	ND	ND	ND	ND	ND	ND
SP-37 South Wall	66	ND	ND	ND	ND	ND	ND	ND
SP-38 BTM 2.5'	440	ND	ND	ND	ND	ND	ND	ND
SP-39 BTM 2.5'	440	ND	ND	ND	ND	ND	ND	ND
SP-40 BTM 2.5'	460	ND	ND	ND	ND	ND	ND	ND
SP-41 BTM 2.5'	480	ND	ND	ND	ND	ND	ND	ND
SP-42 BTM 2.5'	230	ND	ND	ND	ND	ND	ND	ND
SP-43 BTM 2.5'	240	ND	ND	ND	ND	ND	ND	ND
Lab ID 2104C30-001: Collection Date-04/26/2021								
SP-44 North Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-45 South Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-46 North Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-47 South Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-48 North Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-49 South Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-50 North Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-51 West Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-52 South Wall	ND	ND	ND	ND	ND	ND	ND	ND
SP-53 BTM 3.5'	350	ND	ND	ND	ND	ND	ND	ND
SP-54 BTM 2.5'	160	ND	ND	ND	ND	ND	ND	ND
SP-55 BTM 2.5'	360	ND	ND	ND	ND	ND	ND	ND
SP-56 BTM 1.5'	250	ND	ND	ND	ND	ND	ND	ND
SP-57 BTM 1.5'	260	ND	ND	ND	ND	ND	ND	ND
SP-58 BTM 1.5'	240	ND	ND	ND	ND	ND	ND	ND
SP-59 BTM 1.5'	250	ND	ND	ND	ND	ND	ND	ND
SP-60 BTM 1.5'	77	ND	ND	ND	ND	ND	ND	ND

On March 5, 2024, excavation began of the highest chloride areas from the samples collected in April. During the process of excavation, extremely large boulders were encountered. The boulders are sedimentary rock and do not break up easily, causing great difficulties in performing additional excavation. Please see the site photos in Document 2 attached to this report.

On March 13, 2024, confirmation samples were collected from 21 sample points in the existing excavation. The confirmation samples are approximately 2' in depth covering approximately 3,984 square feet in size. Notice for this sampling event was sent and received/approved on March 7, 2024. NMOCD personnel were not present for the sampling.

The samples were properly preserved and packaged then transported under chain of custody to Hall Laboratories for analysis. The results of the sampling are captured in the table below.

Devon Energy Remuda Basin SWD 1 Hall Environmental Laboratories Order No. 885-1405-1: Soil Sample Collected: 03/13/2024								
Sample ID	Chloride (mg/Kg)	Gasoline Range Organics (GRO) (mg/Kg)	Diesel Range Organics (DRO) (mg/Kg)	Motor Oil Range Organics (MRO) (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl benzene (mg/Kg)	Xylenes, Total (mg/Kg)
Confirmation Sample 1	1500	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 2	3000	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 3	140	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 4	6600	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 5	2200	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 6	2000	ND	ND	ND	ND	ND	ND	ND -
Confirmation Sample 7	1700	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 8	2500	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 9	2700	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 10	9800	ND	62	ND	ND	ND	ND	ND
Confirmation Sample 11	1700	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 12	1400	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 13	1800	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 14	1300	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 15	3100	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 16	1700	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 17	3400	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 18	1600	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 19	1900	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 20	370	ND	ND	ND	ND	ND	ND	ND
Confirmation Sample 21	2700	ND	17	ND	ND	ND	ND	ND

Conclusion

The confirmation samples collected on March 13, 2024, show a range of Chloride contamination levels, from 140 ppm to 9,800 ppm. The levels of TPH and BTEX were found to be below the Closure Criteria for Soils Impacted by a release.

Work Plan Remediation

SESI, on behalf of Devon Energy, will excavate and fully delineate the area on the pad affected by this release. A rock hammer will be attached to the trac-hoe to break up the boulders encountered during the first excavation on March 5, 2024. This will allow the boulders to be removed and vertical and horizontal extent of contamination to be determined. Work will begin as soon as the appropriate equipment can be mobilized to the location. If the rock hammer is not able to break boulders, work will cease and the NM OCD will be notified.

The NMOCD will be notified of the date and time of any/all confirmation sampling of the bottom and sides of the excavation for the vertical and horizontal extent of contamination. All samples will be properly packaged and transported, under a chain of custody to Eurofins Albuquerque, NM (formerly Hall Environmental Laboratories) for analysis for TPH, BTEX and Chlorides. All contaminated soil from the excavation will be transported to R 360/Halfway for disposal. The excavation will be backfilled with noncontaminated soil/caliche after confirmation sampling verification that target levels of contamination have been reached.

A total of 320 cubic yards of contaminated soil were previously transported to R360/Halfway for proper disposal.

Supplemental Documentation

Document 1: Map of Release with sample locations

Document 2: Photos of release and remediation

Document 3: NMOCD Oil and Gas Map

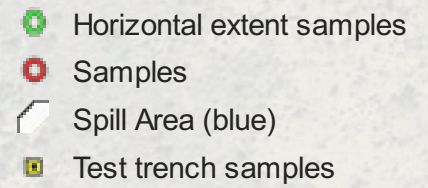
Document 4: BLM Cave Karst Map

Document 5: FEMA Floodplain Map

Document 6: Laboratory Analysis

Document 7: Correspondence

DEV-20-002



Google Earth

Released to Imaging: 5/8/2024 7:34:17 AM

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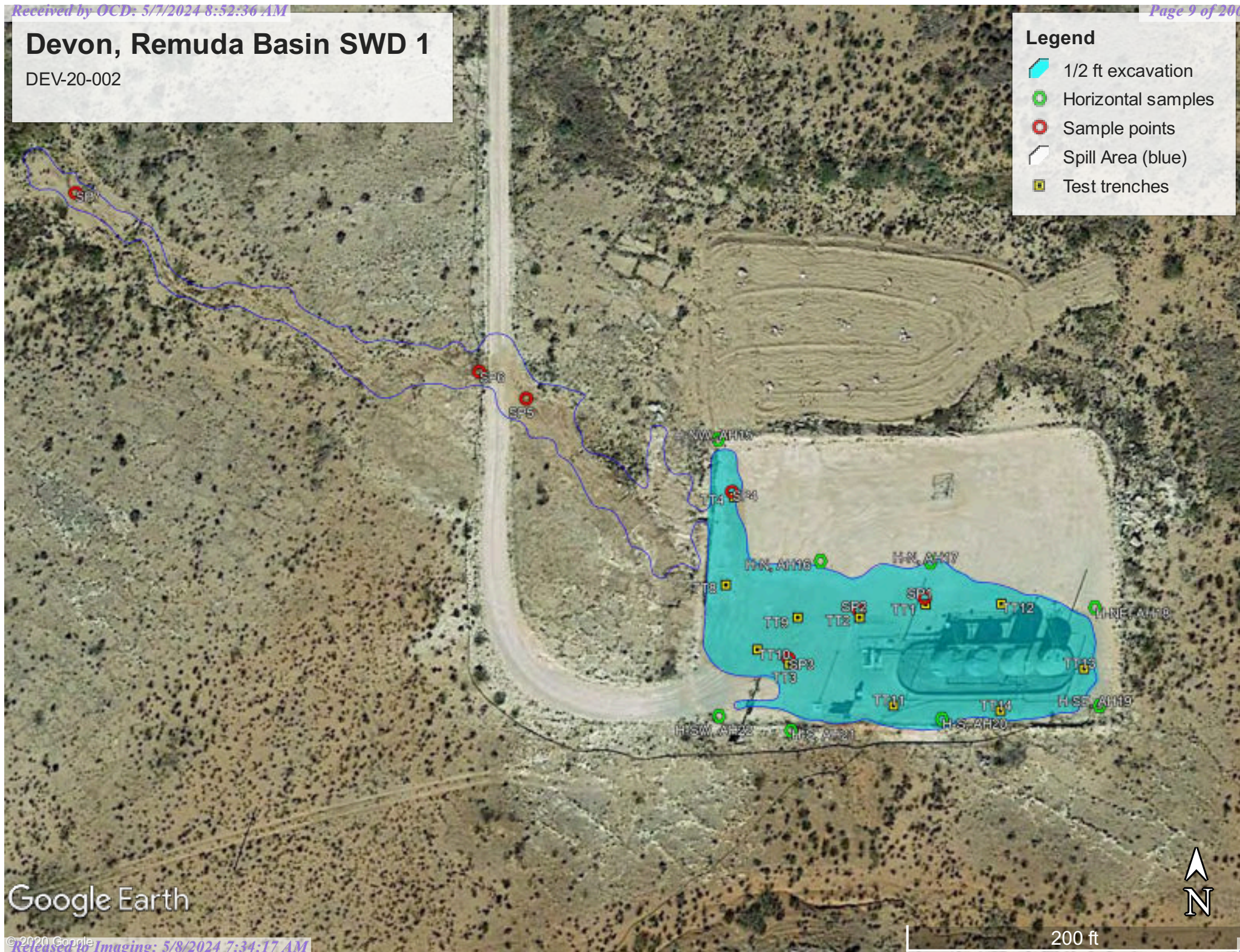
200 ft

Devon, Remuda Basin SWD 1

DEV-20-002

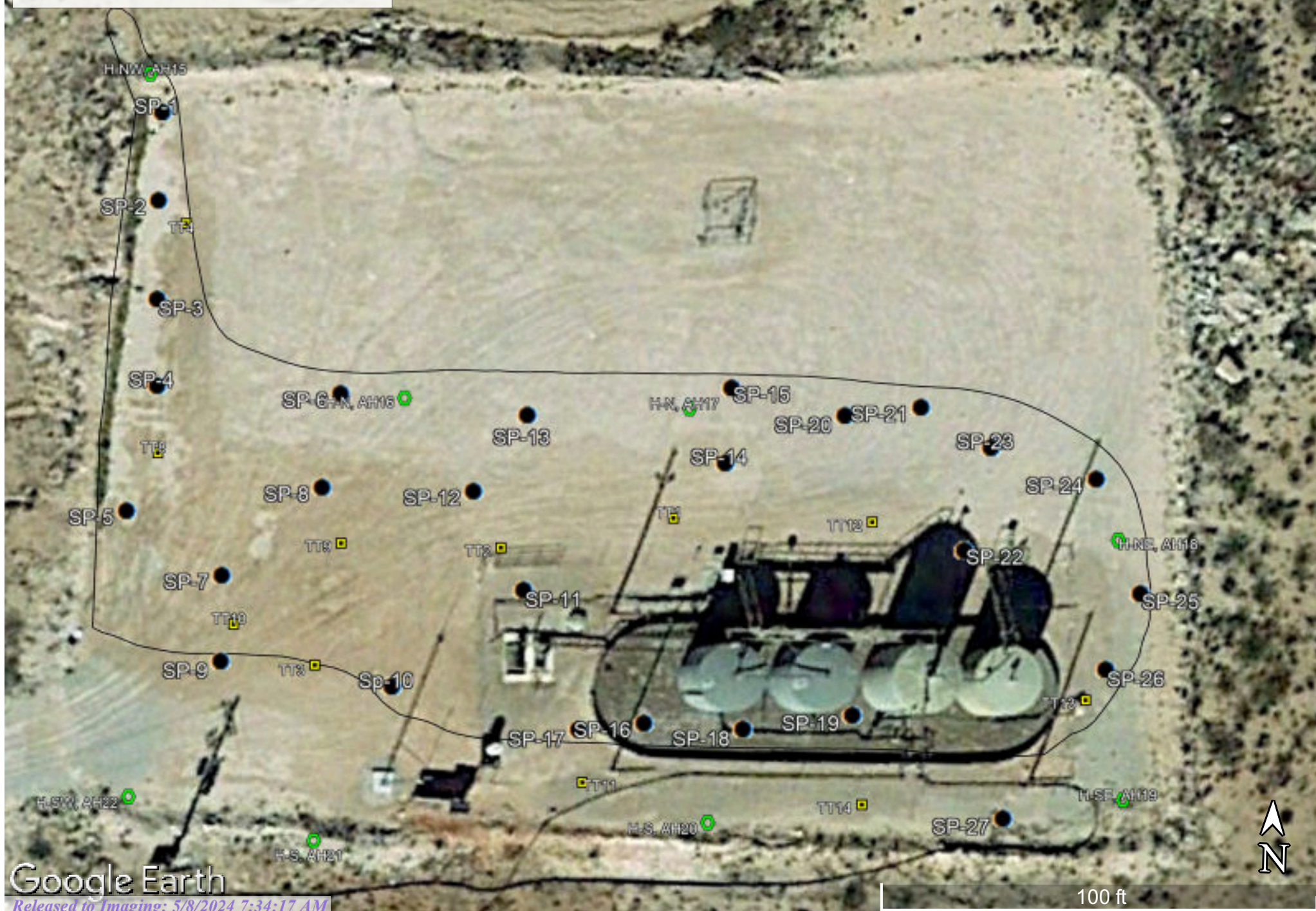
Legend

- 1/2 ft excavation
- Horizontal samples
- Sample points
- Spill Area (blue)
- Test trenches



Confirmation Sampling

CS SP 1-27



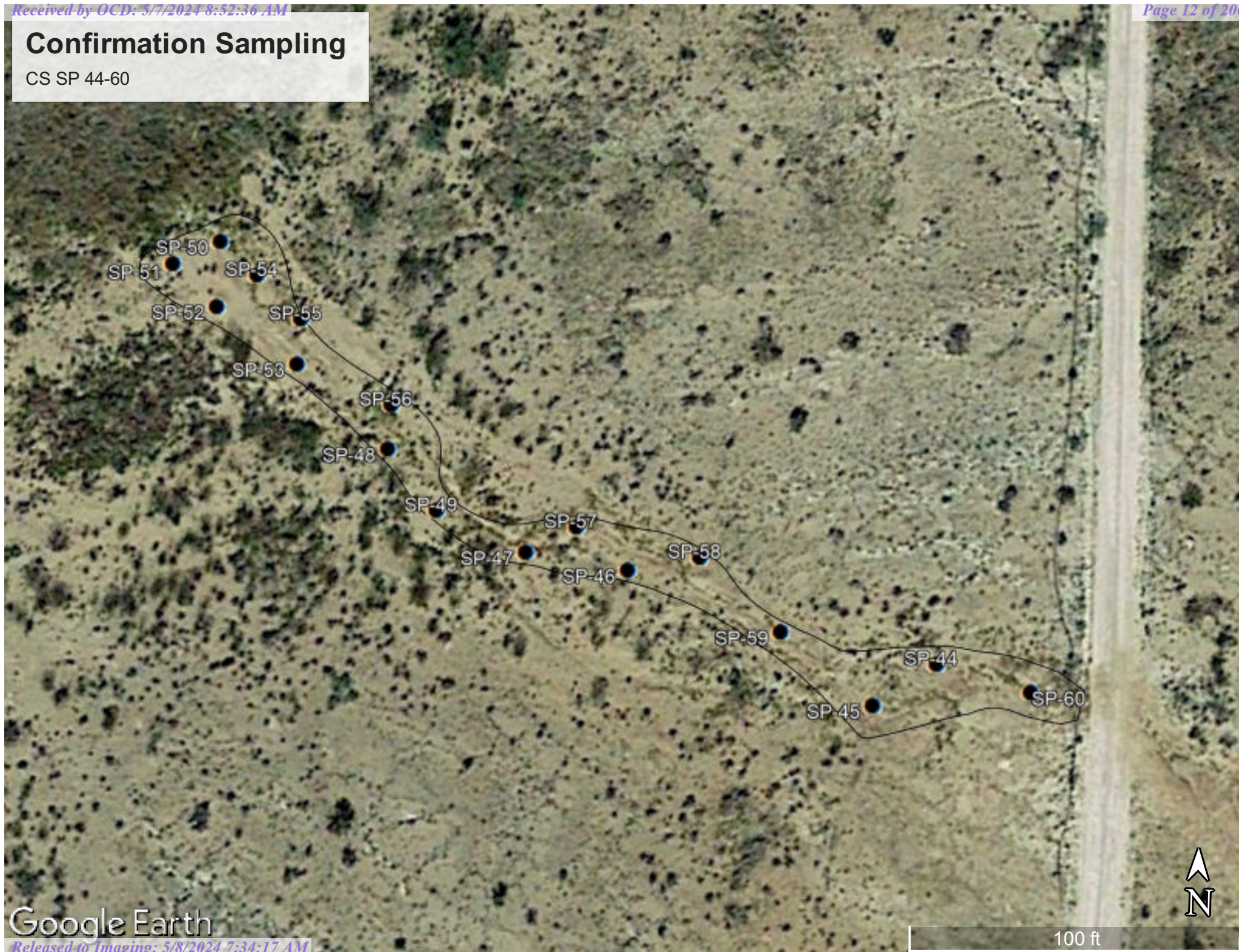
Confirmation Sampling

CS SP 28-43



Confirmation Sampling

CS SP 44-60



Remuda Basin SWD #001

nRM2014561795
Confirmation Samples 1-21
03/13/2024

- Legend**
- Feature 1
 - Spill Area 1



Google Earth

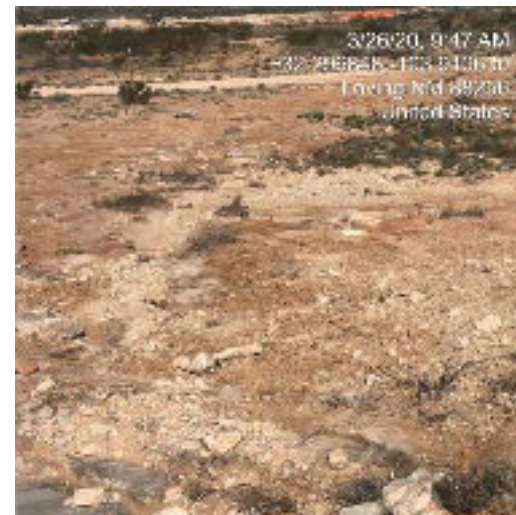
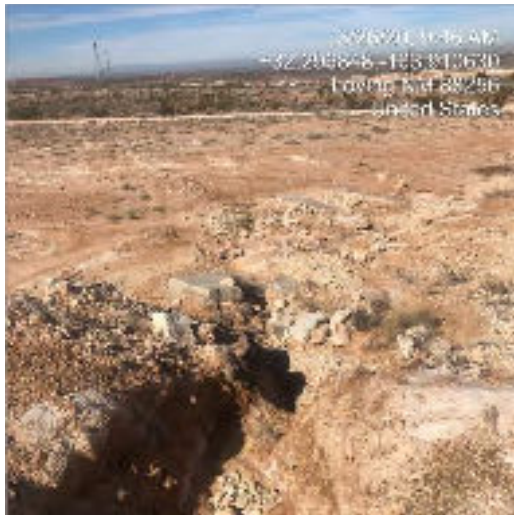
Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



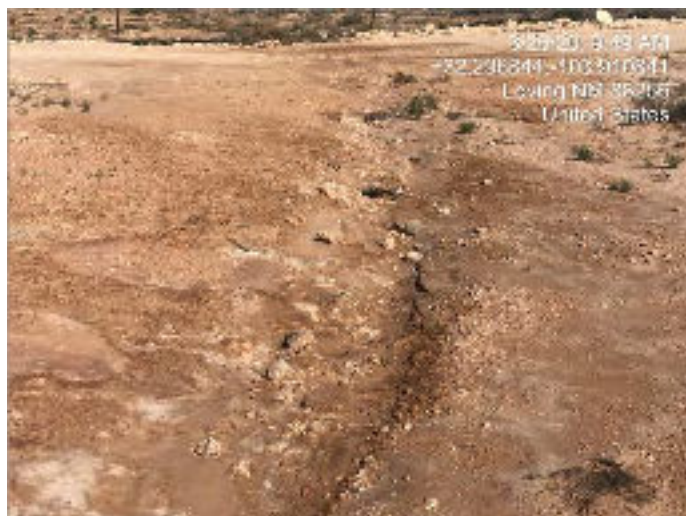
Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



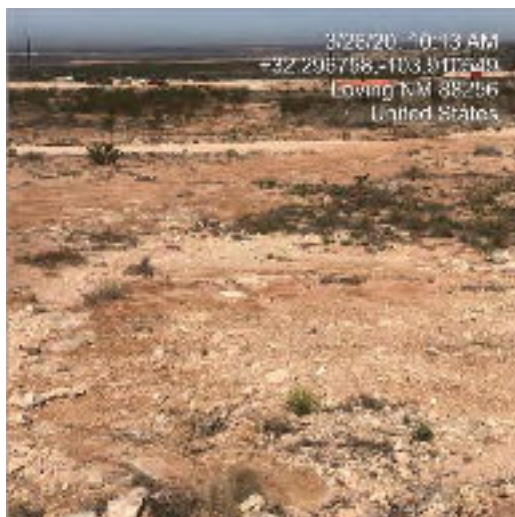
Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



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Remuda Basin SWD 1 Excavation & Remediation



Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



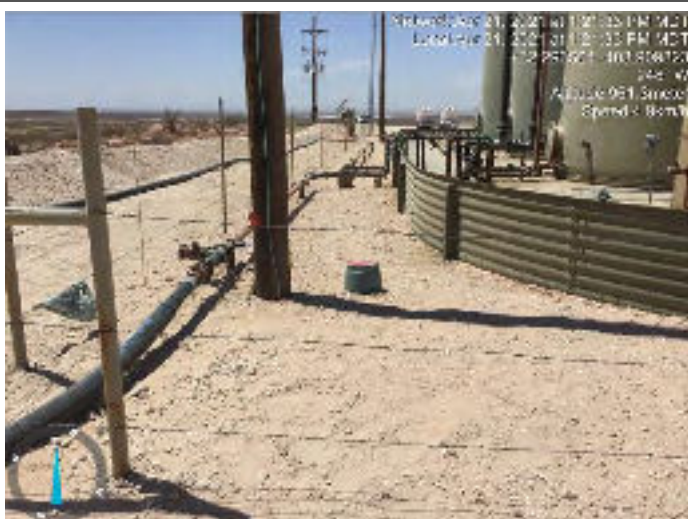
Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



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Remuda Basin SWD 1 Excavation & Remediation



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Remuda Basin SWD 1 Excavation & Remediation



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Remuda Basin SWD 1 Excavation & Remediation

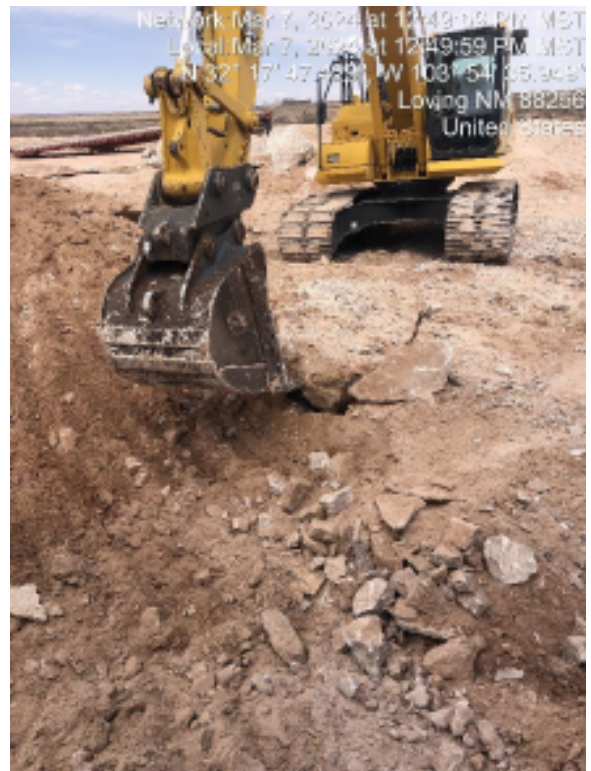
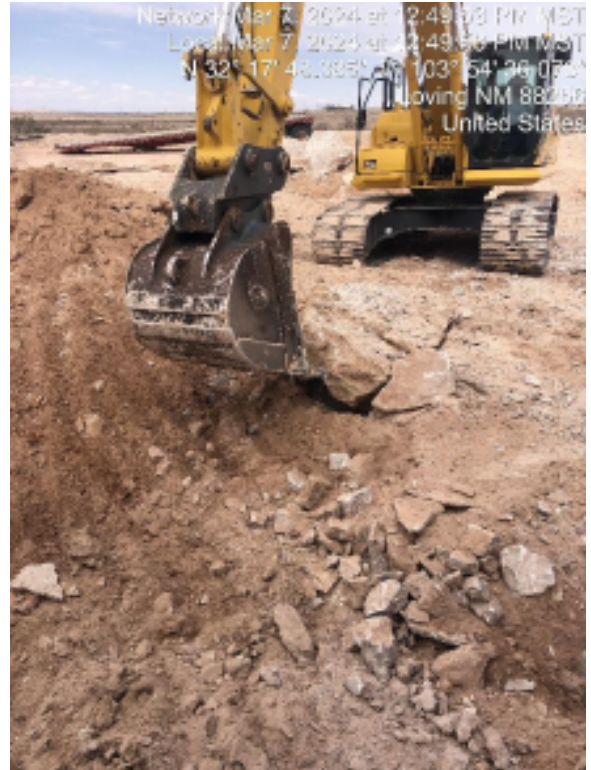


Devon Energy

Remuda Basin SWD 1 Excavation & Remediation



Remuda Basin SWD 1
Site Photographs: March 7, 2024



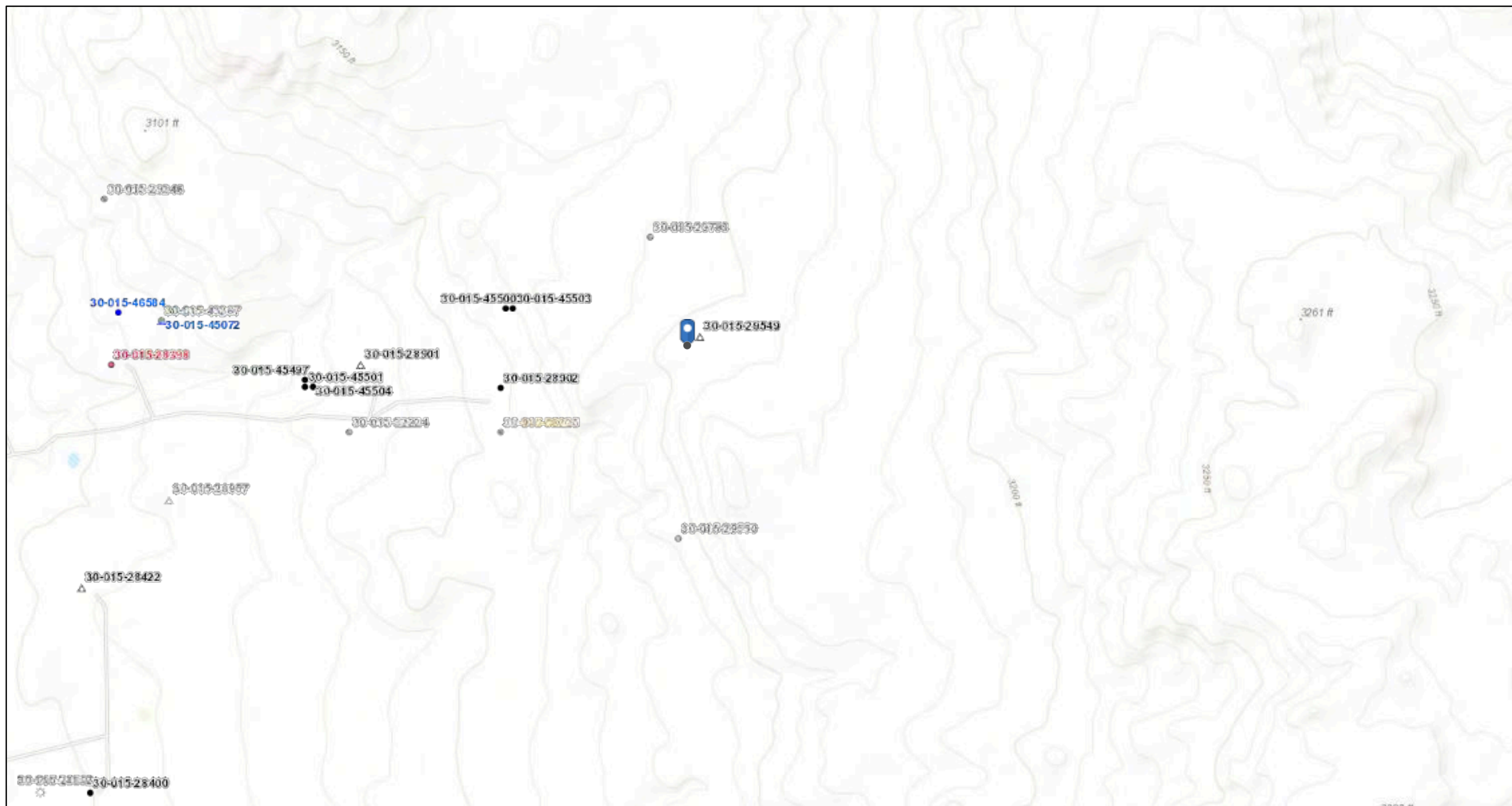
Remuda Basin SWD 1
Site Photographs: March 7, 2024



Remuda Basin SWD 1
Site Photographs: March 7, 2024



Devon, Remuda Basin SWD 1



6/23/2021, 8:08:47 AM

Wells - Large Scale


7 undefined

● Miscellaneous

☀ CO2. Active

* CO2. Cancelled

CO2 New

 CO2 Plugged

☀ CO2, Temporarily Abandoned

Gas. Active


Gas Cancelled

Gas New

Gas Plugged

Gas Temperature

Injection Active

 Injection, Cancelled

 Injection, New

Injection Plugged

Injection Temporarily Abandoned


- Oil Active

- Oil Cancelled


- Oil, Plugged

- Oil, Temporarily Abandoned

△ Salt Water Injection. Active

 Salt Water Injection Canceled

Salt Water Injection, New

 Salt Water Injection, Plugged

- 🔥 Salt Water Injection, Temporarily Abandoned

Water, Active

Water. Cancelled

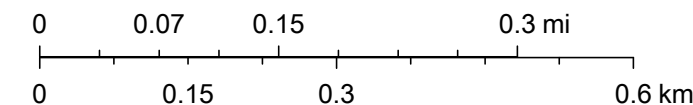
Water: New

🔥 Water Plugged

🔥 Water Temporarily Abandoned

★ **OCD District Offices**

1:9,028



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OGD

Devon, Remuda Basin SWD 1

DEV-20-002
nAB16167403069
nRM2014561795

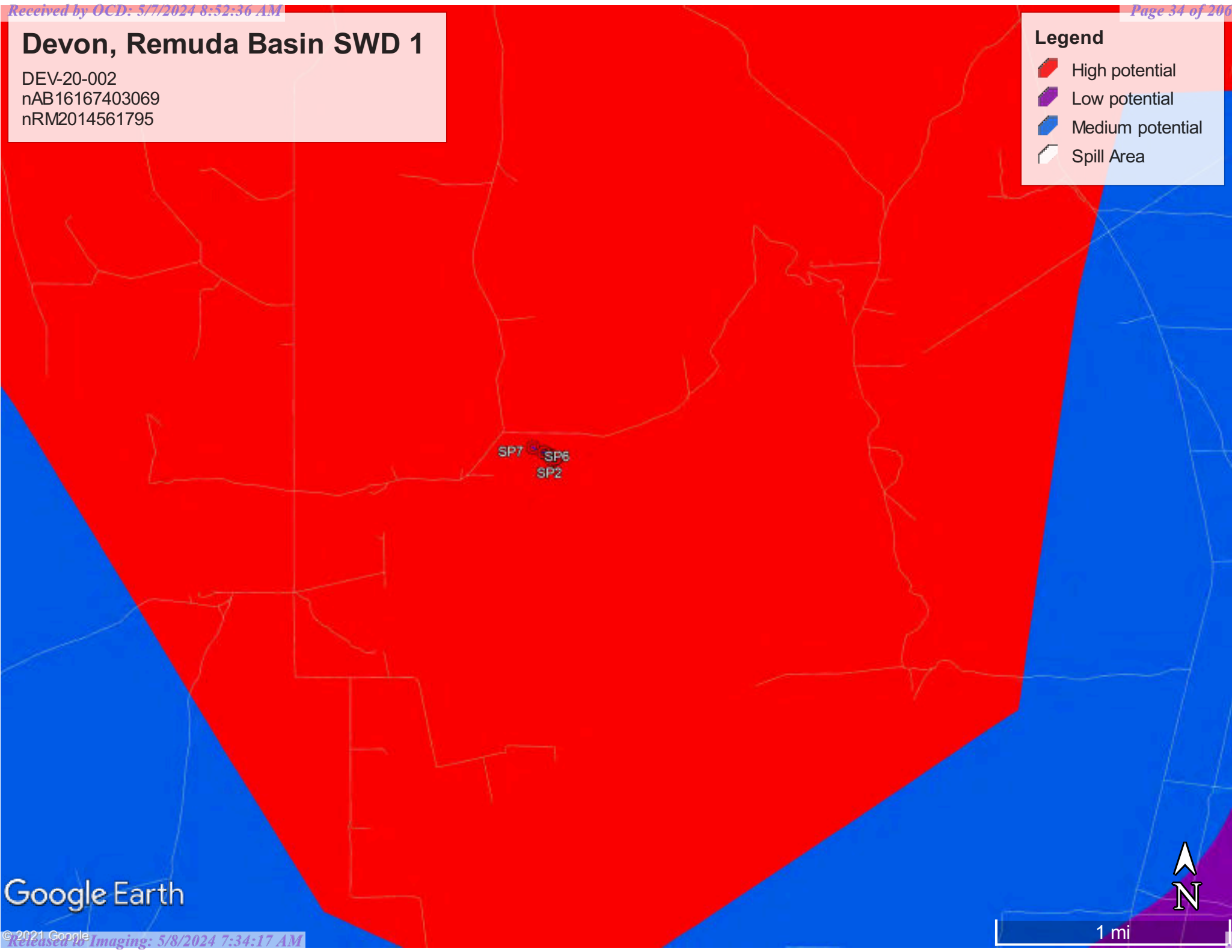
Legend

 High potential

 Low potential

 Medium potential

 Spill Area



Google Earth

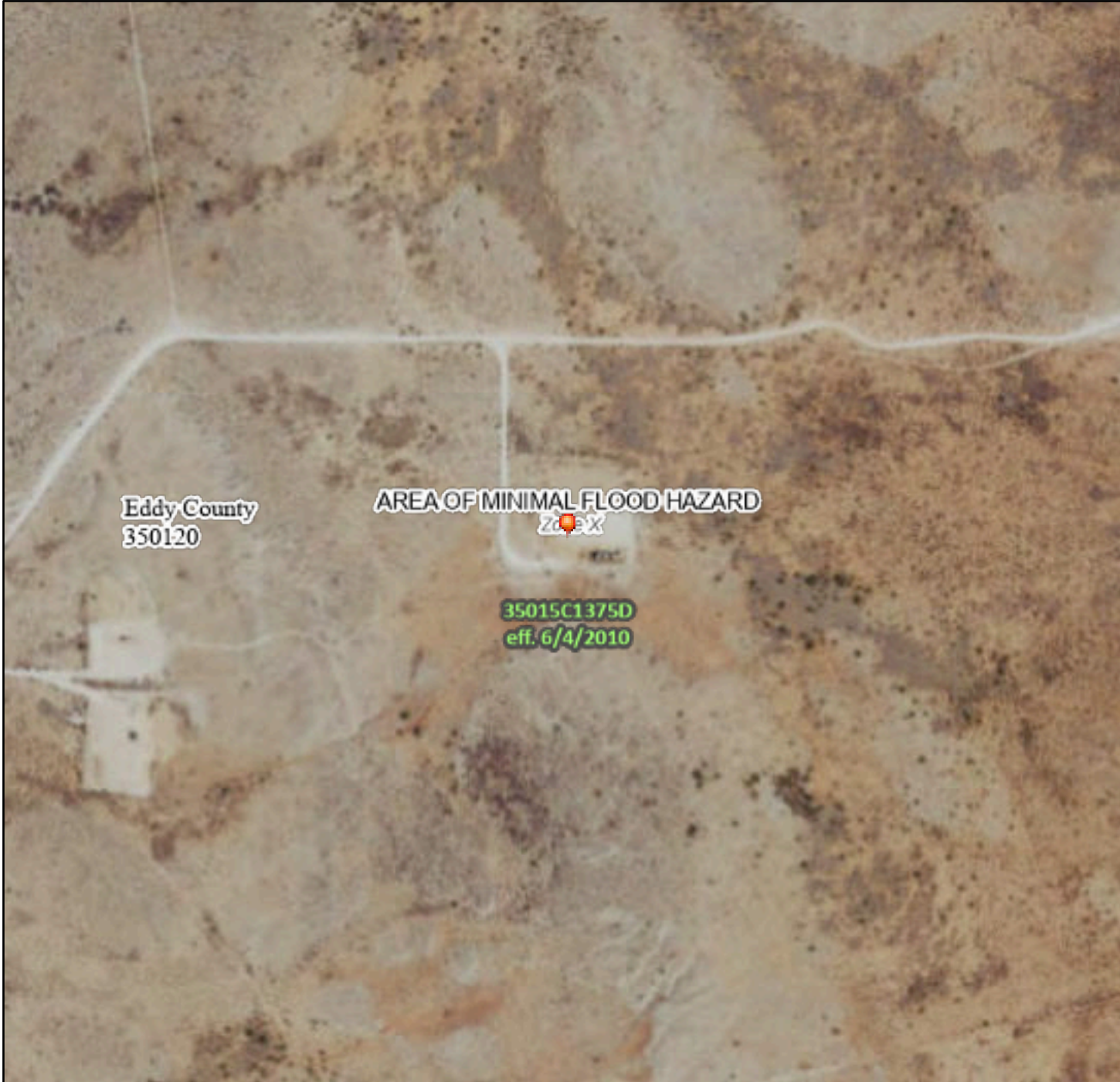

N


1 mi

National Flood Hazard Layer FIRMette



103°54'56"W 32°18'3"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/23/2021 at 10:14 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater ▼

Geographic Area:

New Mexico ▼

GO

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- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321526103520101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321526103520101 23S.30E.34.32400

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°15'26", Longitude 103°52'01" NAD27

Land-surface elevation 3,446 feet above NAVD88

The depth of the well is 567 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

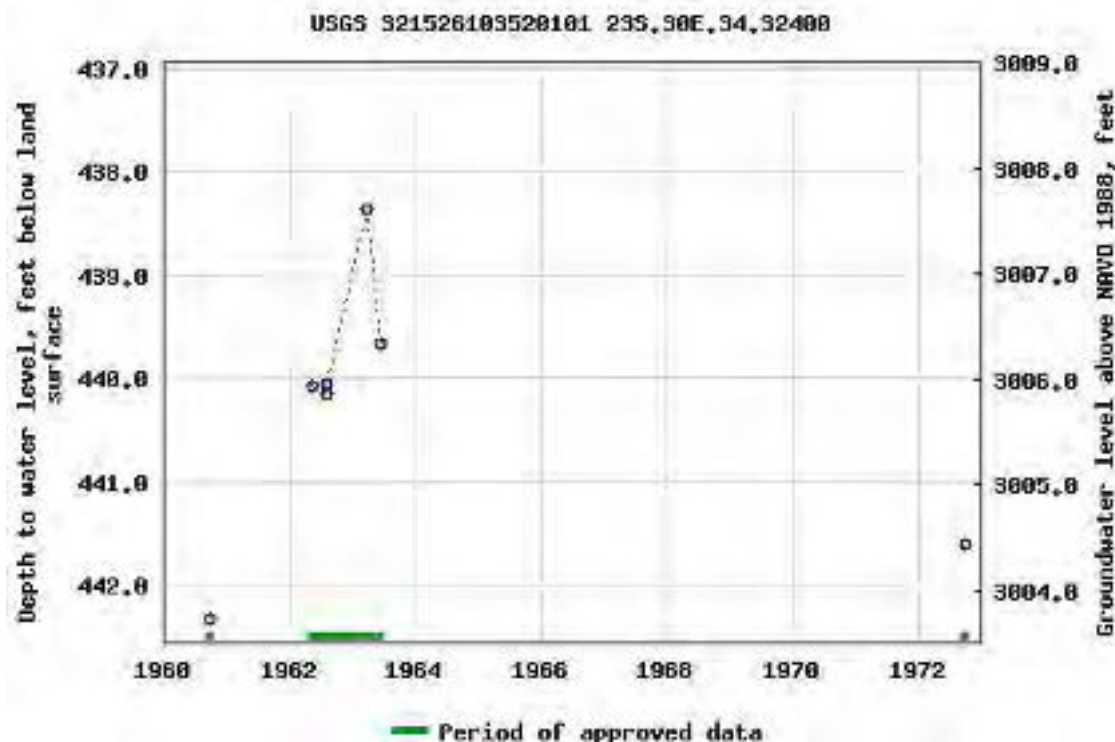
Output formats

[Table of data](#)

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-03-16 13:03:31 EDT

0.63 0.53 nadww01

Figure 6: Laboratory Analysis



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 19, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Devon Remuda Basin SWD 1

OrderNo.: 2104533

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/13/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-1 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 9:35:00 AM

Lab ID: 2104533-001

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	160	59		mg/Kg	20	4/15/2021 12:34:59 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/14/2021 2:12:35 PM	59380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2021 2:12:35 PM	59380
Surr: DNOP	80.4	70-130		%Rec	1	4/14/2021 2:12:35 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 2:23:15 PM	59375
Surr: BFB	99.9	70-130		%Rec	1	4/14/2021 2:23:15 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 2:23:15 PM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 2:23:15 PM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 2:23:15 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 2:23:15 PM	59375
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	4/14/2021 2:23:15 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 12

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-2 East Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 9:50:00 AM

Lab ID: 2104533-002

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	280	60		mg/Kg	20	4/15/2021 1:12:13 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/14/2021 2:25:32 PM	59380
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2021 2:25:32 PM	59380
Surr: DNOP	83.9	70-130		%Rec	1	4/14/2021 2:25:32 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2021 3:33:58 PM	59375
Surr: BFB	105	70-130		%Rec	1	4/14/2021 3:33:58 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 3:33:58 PM	59375
Toluene	ND	0.049		mg/Kg	1	4/14/2021 3:33:58 PM	59375
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2021 3:33:58 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 3:33:58 PM	59375
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/14/2021 3:33:58 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-3 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 10:10:00 AM

Lab ID: 2104533-003

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	150	60		mg/Kg	20	4/15/2021 1:24:38 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/14/2021 2:37:58 PM	59380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2021 2:37:58 PM	59380
Surr: DNOP	80.1	70-130		%Rec	1	4/14/2021 2:37:58 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2021 3:57:31 PM	59375
Surr: BFB	103	70-130		%Rec	1	4/14/2021 3:57:31 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/14/2021 3:57:31 PM	59375
Toluene	ND	0.049		mg/Kg	1	4/14/2021 3:57:31 PM	59375
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2021 3:57:31 PM	59375
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2021 3:57:31 PM	59375
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	4/14/2021 3:57:31 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 12

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-4 East Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 10:20:00 AM

Lab ID: 2104533-004

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	180	60		mg/Kg	20	4/15/2021 1:37:02 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/14/2021 2:50:56 PM	59380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2021 2:50:56 PM	59380
Surr: DNOP	83.9	70-130		%Rec	1	4/14/2021 2:50:56 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2021 4:21:04 PM	59375
Surr: BFB	103	70-130		%Rec	1	4/14/2021 4:21:04 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 4:21:04 PM	59375
Toluene	ND	0.049		mg/Kg	1	4/14/2021 4:21:04 PM	59375
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2021 4:21:04 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 4:21:04 PM	59375
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	4/14/2021 4:21:04 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 12

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-5 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 11:00:00 AM

Lab ID: 2104533-005

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3200	150		mg/Kg	50	4/16/2021 8:33:07 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	4/14/2021 5:11:38 PM	59380
Motor Oil Range Organics (MRO)	67	50		mg/Kg	1	4/14/2021 5:11:38 PM	59380
Surr: DNOP	90.9	70-130		%Rec	1	4/14/2021 5:11:38 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 4:44:41 PM	59375
Surr: BFB	101	70-130		%Rec	1	4/14/2021 4:44:41 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 4:44:41 PM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 4:44:41 PM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 4:44:41 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 4:44:41 PM	59375
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	4/14/2021 4:44:41 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-6 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 11:20:00 AM

Lab ID: 2104533-006

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	4/15/2021 2:01:51 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/14/2021 3:16:31 PM	59380
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/14/2021 3:16:31 PM	59380
Surr: DNOP	85.5	70-130		%Rec	1	4/14/2021 3:16:31 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2021 5:08:10 PM	59375
Surr: BFB	103	70-130		%Rec	1	4/14/2021 5:08:10 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 5:08:10 PM	59375
Toluene	ND	0.049		mg/Kg	1	4/14/2021 5:08:10 PM	59375
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2021 5:08:10 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 5:08:10 PM	59375
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	4/14/2021 5:08:10 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2104533
Date Reported: 4/19/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-7 Bottom 6"
Project: Devon Remuda Basin SWD 1 Collection Date: 4/8/2021 11:50:00 AM
Lab ID: 2104533-007 Matrix: SOIL Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3100	150		mg/Kg	50	4/16/2021 1:06:19 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	21	9.6		mg/Kg	1	4/14/2021 4:46:01 PM	59380
Motor Oil Range Organics (MRO)	69	48		mg/Kg	1	4/14/2021 4:46:01 PM	59380
Surr: DNOP	92.8	70-130		%Rec	1	4/14/2021 4:46:01 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2021 5:31:38 PM	59375
Surr: BFB	99.2	70-130		%Rec	1	4/14/2021 5:31:38 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/14/2021 5:31:38 PM	59375
Toluene	ND	0.048		mg/Kg	1	4/14/2021 5:31:38 PM	59375
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2021 5:31:38 PM	59375
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2021 5:31:38 PM	59375
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	4/14/2021 5:31:38 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104533

Date Reported: 4/19/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-8 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/8/2021 12:30:00 PM

Lab ID: 2104533-008

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	960	60		mg/Kg	20	4/15/2021 2:26:40 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/14/2021 3:42:04 PM	59380
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2021 3:42:04 PM	59380
Surr: DNOP	87.8	70-130		%Rec	1	4/14/2021 3:42:04 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 5:55:11 PM	59375
Surr: BFB	103	70-130		%Rec	1	4/14/2021 5:55:11 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 5:55:11 PM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 5:55:11 PM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 5:55:11 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 5:55:11 PM	59375
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	4/14/2021 5:55:11 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104533

19-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: MB-59422	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/15/2021	SeqNo: 2718560	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59422	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/15/2021	SeqNo: 2718561	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-59422	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/16/2021	SeqNo: 2718644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59422	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/16/2021	SeqNo: 2718645	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 9 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104533

19-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: LCS-59380	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59380	RunNo: 76662								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716681		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.5	68.9	141			
Surr: DNOP	4.1		5.000		83.0	70	130			

Sample ID: MB-59380	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59380	RunNo: 76662								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2717367		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104533

19-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: mb-59375	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716895		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-59375	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716896		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104533

19-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: mb-59375	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716915	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	70	130			

Sample ID: LCS-59375	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716916	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

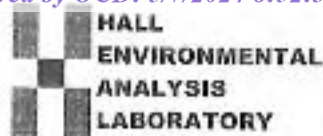
Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-245-4107
 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2104533

ReptNo: 1

Received By: Juan Rojas

4/13/2021 7:35:00 AM

Completed By: Cheyenne Cason

4/13/2021 8:02:05 AM

Reviewed By: SGL 4/13/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 5.0°C ? Yes ☒ No ☐ NA ☐
 5. Sample(s) in proper container(s)? Yes ☒ No ☐
 6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
 8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
 10. Were any sample containers received broken? Yes ☐ No ☒
 11. Does paperwork match bottle labels? Yes ☒ No ☐
 (Note discrepancies on chain of custody)
 12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 13. Is it clear what analyses were requested? Yes ☒ No ☐
 14. Were all holding times able to be met? Yes ☒ No ☐
 (If no, notify customer for authorization.)

of preserved
bottles checked
for pH.

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 16, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Remuda Basin SWD #1

OrderNo.: 2104531

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/13/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104531

Date Reported: 4/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-9 South Wall

Project: Devon Remuda Basin SWD #1

Collection Date: 4/9/2021 10:20:00 AM

Lab ID: 2104531-001

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	4/15/2021 11:45:21 AM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/14/2021 12:57:10 PM	59380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2021 12:57:10 PM	59380
Surr: DNOP	87.5	70-130		%Rec	1	4/14/2021 12:57:10 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 11:13:24 AM	59375
Surr: BFB	104	70-130		%Rec	1	4/14/2021 11:13:24 AM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 11:13:24 AM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 11:13:24 AM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 11:13:24 AM	59375
Xylenes, Total	ND	0.10		mg/Kg	1	4/14/2021 11:13:24 AM	59375
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	4/14/2021 11:13:24 AM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104531

Date Reported: 4/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-10 South Wall

Project: Devon Remuda Basin SWD #1

Collection Date: 4/9/2021 10:45:00 AM

Lab ID: 2104531-002

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	310	60		mg/Kg	20	4/15/2021 11:57:45 AM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/14/2021 1:34:44 PM	59380
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/14/2021 1:34:44 PM	59380
Surr: DNOP	70.6	70-130		%Rec	1	4/14/2021 1:34:44 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 12:24:59 PM	59375
Surr: BFB	101	70-130		%Rec	1	4/14/2021 12:24:59 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 12:24:59 PM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 12:24:59 PM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 12:24:59 PM	59375
Xylenes, Total	ND	0.10		mg/Kg	1	4/14/2021 12:24:59 PM	59375
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	4/14/2021 12:24:59 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104531

Date Reported: 4/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-11 Bottom 6"

Project: Devon Remuda Basin SWD #1

Collection Date: 4/9/2021 11:05:00 AM

Lab ID: 2104531-003

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	990	60		mg/Kg	20	4/15/2021 12:10:09 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/14/2021 1:47:36 PM	59380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2021 1:47:36 PM	59380
Surr: DNOP	78.9	70-130		%Rec	1	4/14/2021 1:47:36 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2021 1:35:48 PM	59375
Surr: BFB	106	70-130		%Rec	1	4/14/2021 1:35:48 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 1:35:48 PM	59375
Toluene	ND	0.050		mg/Kg	1	4/14/2021 1:35:48 PM	59375
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2021 1:35:48 PM	59375
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2021 1:35:48 PM	59375
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	4/14/2021 1:35:48 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104531

Date Reported: 4/16/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-12 Bottom 6"

Project: Devon Remuda Basin SWD #1

Collection Date: 4/9/2021 11:30:00 AM

Lab ID: 2104531-004

Matrix: SOIL

Received Date: 4/13/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	940	60		mg/Kg	20	4/15/2021 12:22:34 PM	59422
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/14/2021 2:00:00 PM	59380
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2021 2:00:00 PM	59380
Surr: DNOP	81.5	70-130		%Rec	1	4/14/2021 2:00:00 PM	59380
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2021 1:59:23 PM	59375
Surr: BFB	105	70-130		%Rec	1	4/14/2021 1:59:23 PM	59375
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/14/2021 1:59:23 PM	59375
Toluene	ND	0.049		mg/Kg	1	4/14/2021 1:59:23 PM	59375
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2021 1:59:23 PM	59375
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2021 1:59:23 PM	59375
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	4/14/2021 1:59:23 PM	59375

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104531

16-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD #1

Sample ID: MB-59422	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/15/2021	SeqNo: 2718560			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59422	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/15/2021	SeqNo: 2718561			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-59422	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/16/2021	SeqNo: 2718644			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59422	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59422	RunNo: 76704								
Prep Date: 4/15/2021	Analysis Date: 4/16/2021	SeqNo: 2718645			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 5 of 9

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104531

16-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD #1

Sample ID: MB-59396	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 59396			RunNo: 76662						
Prep Date: 4/14/2021	Analysis Date: 4/14/2021			SeqNo: 2716411			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.0	70	130			

Sample ID: LCS-59396	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 59396			RunNo: 76662						
Prep Date: 4/14/2021	Analysis Date: 4/14/2021			SeqNo: 2716412			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.4	70	130			

Sample ID: LCS-59380	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 59380			RunNo: 76662						
Prep Date: 4/13/2021	Analysis Date: 4/14/2021			SeqNo: 2716681			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	73.5	68.9	141			
Surr: DNOP	4.1		5.000		83.0	70	130			

Sample ID: 2104531-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SP-9 South Wall	Batch ID: 59380			RunNo: 76662						
Prep Date: 4/13/2021	Analysis Date: 4/14/2021			SeqNo: 2716683			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.7	48.50	0	84.1	15	184			
Surr: DNOP	3.9		4.850		79.7	70	130			

Sample ID: MB-59380	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 59380			RunNo: 76662						
Prep Date: 4/13/2021	Analysis Date: 4/14/2021			SeqNo: 2717367			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Sample ID: 2104531-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SP-9 South Wall	Batch ID: 59380			RunNo: 76662						
Prep Date: 4/13/2021	Analysis Date: 4/14/2021			SeqNo: 2719329			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.3	46.60	0	77.8	15	184	11.7	23.9	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 6 of 9

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104531

16-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD #1

Sample ID: 2104531-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SP-9 South Wall		Batch ID: 59380		RunNo: 76662						
Prep Date: 4/13/2021		Analysis Date: 4/14/2021		SeqNo: 2719329		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		4.660		79.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 9

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104531

16-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD #1

Sample ID: mb-59375	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 59375		RunNo: 76660							
Prep Date: 4/13/2021	Analysis Date: 4/14/2021		SeqNo: 2716895		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-59375	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 59375		RunNo: 76660							
Prep Date: 4/13/2021	Analysis Date: 4/14/2021		SeqNo: 2716896		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: 2104531-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SP-10 South Wall	Batch ID: 59375		RunNo: 76660							
Prep Date: 4/13/2021	Analysis Date: 4/14/2021		SeqNo: 2716899		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	112	61.3	114			
Surr: BFB	1100		972.8		113	70	130			

Sample ID: 2104531-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SP-10 South Wall	Batch ID: 59375		RunNo: 76660							
Prep Date: 4/13/2021	Analysis Date: 4/14/2021		SeqNo: 2716900		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.61	0	115	61.3	114	3.81	20	S
Surr: BFB	1100		984.3		114	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104531

16-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD #1

Sample ID: mb-59375	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716915 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	70	130			

Sample ID: LCS-59375	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716916 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

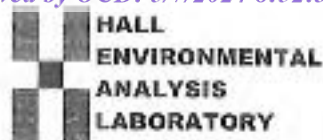
Sample ID: 2104531-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-9 South Wall	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716918 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9785	0	98.8	76.3	120			
Toluene	1.0	0.049	0.9785	0	102	78.5	120			
Ethylbenzene	1.0	0.049	0.9785	0	102	78.1	124			
Xylenes, Total	3.0	0.098	2.935	0	101	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9785		102	70	130			

Sample ID: 2104531-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-9 South Wall	Batch ID: 59375	RunNo: 76660								
Prep Date: 4/13/2021	Analysis Date: 4/14/2021	SeqNo: 2716919 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9814	0	101	80	120	2.05	20	
Toluene	1.0	0.049	0.9814	0	104	80	120	2.13	20	
Ethylbenzene	1.0	0.049	0.9814	0	104	80	120	2.20	20	
Xylenes, Total	3.1	0.098	2.944	0	104	80	120	2.91	20	
Surr: 4-Bromofluorobenzene	0.99		0.9814		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2104531

RcptNo: 1

Received By: Juan Rojas

4/13/2021 7:35:00 AM

Completed By: Cheyenne Cason

4/13/2021 7:55:58 AM

Reviewed By: SGL 4/13/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1\text{M}^3$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

TO
4/13/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 20, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Devon Remuda Basin SWD 1

OrderNo.: 2104743

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/16/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-13 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 9:55:00 AM

Lab ID: 2104743-001

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	4/19/2021 8:49:17 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/17/2021 4:59:01 PM	59459
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/17/2021 4:59:01 PM	59459
Surr: DNOP	75.9	70-130		%Rec	1	4/17/2021 4:59:01 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2021	59455
Surr: BFB	95.1	70-130		%Rec	1	4/18/2021	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021	59455
Toluene	ND	0.049		mg/Kg	1	4/18/2021	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2021	59455
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2021	59455
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	4/18/2021	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-14 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 10:15:00 AM

Lab ID: 2104743-002

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	59		mg/Kg	20	4/19/2021 9:26:30 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/17/2021 5:46:51 PM	59459
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 5:46:51 PM	59459
Surr: DNOP	81.6	70-130		%Rec	1	4/17/2021 5:46:51 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2021 12:20:00 AM	59455
Surr: BFB	97.4	70-130		%Rec	1	4/18/2021 12:20:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021 12:20:00 AM	59455
Toluene	ND	0.049		mg/Kg	1	4/18/2021 12:20:00 AM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2021 12:20:00 AM	59455
Xylenes, Total	ND	0.098		mg/Kg	1	4/18/2021 12:20:00 AM	59455
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/18/2021 12:20:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 11

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-15 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 10:30:00 AM

Lab ID: 2104743-003

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	100	61		mg/Kg	20	4/19/2021 9:38:54 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/17/2021 6:10:40 PM	59459
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 6:10:40 PM	59459
Surr: DNOP	76.1	70-130		%Rec	1	4/17/2021 6:10:40 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2021 12:40:00 AM	59455
Surr: BFB	99.6	70-130		%Rec	1	4/18/2021 12:40:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021 12:40:00 AM	59455
Toluene	ND	0.048		mg/Kg	1	4/18/2021 12:40:00 AM	59455
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2021 12:40:00 AM	59455
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2021 12:40:00 AM	59455
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/18/2021 12:40:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-16 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 11:05:00 AM

Lab ID: 2104743-004

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	60		mg/Kg	20	4/19/2021 9:51:18 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	7.2		mg/Kg	1	4/17/2021 6:34:32 PM	59459
Motor Oil Range Organics (MRO)	ND	36		mg/Kg	1	4/17/2021 6:34:32 PM	59459
Surr: DNOP	83.4	70-130		%Rec	1	4/17/2021 6:34:32 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2021 1:00:00 AM	59455
Surr: BFB	101	70-130		%Rec	1	4/18/2021 1:00:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021 1:00:00 AM	59455
Toluene	ND	0.047		mg/Kg	1	4/18/2021 1:00:00 AM	59455
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2021 1:00:00 AM	59455
Xylenes, Total	ND	0.094		mg/Kg	1	4/18/2021 1:00:00 AM	59455
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	4/18/2021 1:00:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 11

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-17 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 11:40:00 AM

Lab ID: 2104743-005

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	310	60		mg/Kg	20	4/19/2021 10:03:43 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/17/2021 7:22:10 PM	59459
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/17/2021 7:22:10 PM	59459
Surr: DNOP	83.4	70-130		%Rec	1	4/17/2021 7:22:10 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2021 1:20:00 AM	59455
Surr: BFB	104	70-130		%Rec	1	4/18/2021 1:20:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/18/2021 1:20:00 AM	59455
Toluene	ND	0.049		mg/Kg	1	4/18/2021 1:20:00 AM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2021 1:20:00 AM	59455
Xylenes, Total	ND	0.099		mg/Kg	1	4/18/2021 1:20:00 AM	59455
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	4/18/2021 1:20:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-18 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 12:00:00 PM

Lab ID: 2104743-006

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	4/19/2021 10:16:07 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/17/2021 7:45:58 PM	59459
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/17/2021 7:45:58 PM	59459
Surr: DNOP	84.4	70-130		%Rec	1	4/17/2021 7:45:58 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2021 2:39:00 AM	59455
Surr: BFB	102	70-130		%Rec	1	4/18/2021 2:39:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021 2:39:00 AM	59455
Toluene	ND	0.049		mg/Kg	1	4/18/2021 2:39:00 AM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2021 2:39:00 AM	59455
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2021 2:39:00 AM	59455
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/18/2021 2:39:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 11

Analytical Report

Lab Order 2104743

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-19 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/12/2021 1:10:00 PM

Lab ID: 2104743-007

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	460	61		mg/Kg	20	4/19/2021 10:53:21 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/17/2021 8:09:41 PM	59459
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/17/2021 8:09:41 PM	59459
Surr: DNOP	89.6	70-130		%Rec	1	4/17/2021 8:09:41 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2021 2:59:00 AM	59455
Surr: BFB	102	70-130		%Rec	1	4/18/2021 2:59:00 AM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/18/2021 2:59:00 AM	59455
Toluene	ND	0.048		mg/Kg	1	4/18/2021 2:59:00 AM	59455
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2021 2:59:00 AM	59455
Xylenes, Total	ND	0.096		mg/Kg	1	4/18/2021 2:59:00 AM	59455
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	4/18/2021 2:59:00 AM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 11

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2104743
20-Apr-21

Client: Safety & Environmental Solutions
Project: Devon Remuda Basin SWD 1

Sample ID: MB-59480	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 59480	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721273 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-59480	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 59480	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721274 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.8 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104743

20-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: MB-59459	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720999 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.9	70	130			

Sample ID: LCS-59459	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2721001 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	68.9	141			
Surr: DNOP	3.8		5.000		76.0	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 9 of 11

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104743

20-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: LCS-59455	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720133		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: MB-59455	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720134		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104743

20-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: MB-59455	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720198	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: LCS-59455	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720260	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 11 of 11



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com*

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2104743

RcptNo: 1

Received By: **Juan Rojas**

4/16/2021 7:35:00 AM

Henry G.

Completed By: **Cheyenne Cason**

4/16/2021 8:02:36 AM

Chad

Reviewed By: SPA 4-16-21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

- | | | | |
|--|---|--|--|
| 3. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH: (2)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				

Chain-of-Custody Record

Client: Office of EnvironmentalSolutionsMailing Address: 203 E. ClintonAlbuquerque NM 87109Phone #: 505-397-0510

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

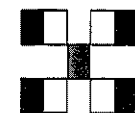
Turn-Around Time:

☒ Standard ☐ RushProject Name: DevonRemuda Basin Sub 1

Project #:

Dev-20-002

Project Manager:

Allen BobSampler: Son JunOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including c/f): 12.0-15.1 (°C)HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Received by: MumneyVia: 4/15/24 noonDate: 4/15/24Time: 7:35Relinquished by: Son JunRelinquished by: MumneyDate: 4/15/24Time: 9:00Remarks: Ben Devon Direct.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 20, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Devon Remuda Basin SWD 1

OrderNo.: 2104742

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/16/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-20 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 10:00:00 AM

Lab ID: 2104742-001

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	4/19/2021 5:30:49 PM	59476
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	4/17/2021 12:12:07 PM	59459
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	4/17/2021 12:12:07 PM	59459
Surr: DNOP	96.3	70-130		%Rec	1	4/17/2021 12:12:07 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/17/2021 7:43:00 PM	59455
Surr: BFB	98.8	70-130		%Rec	1	4/17/2021 7:43:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	4/17/2021 7:43:00 PM	59455
Toluene	ND	0.047		mg/Kg	1	4/17/2021 7:43:00 PM	59455
Ethylbenzene	ND	0.047		mg/Kg	1	4/17/2021 7:43:00 PM	59455
Xylenes, Total	ND	0.094		mg/Kg	1	4/17/2021 7:43:00 PM	59455
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	4/17/2021 7:43:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-21 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 10:25:00 AM

Lab ID: 2104742-002

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	4/19/2021 6:32:51 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/17/2021 1:47:16 PM	59459
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/17/2021 1:47:16 PM	59459
Surr: DNOP	86.1	70-130		%Rec	1	4/17/2021 1:47:16 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/17/2021 8:42:00 PM	59455
Surr: BFB	97.6	70-130		%Rec	1	4/17/2021 8:42:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/17/2021 8:42:00 PM	59455
Toluene	ND	0.050		mg/Kg	1	4/17/2021 8:42:00 PM	59455
Ethylbenzene	ND	0.050		mg/Kg	1	4/17/2021 8:42:00 PM	59455
Xylenes, Total	ND	0.099		mg/Kg	1	4/17/2021 8:42:00 PM	59455
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	4/17/2021 8:42:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-22 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 11:00:00 AM

Lab ID: 2104742-003

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1400	60		mg/Kg	20	4/19/2021 6:45:15 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/17/2021 2:11:09 PM	59459
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 2:11:09 PM	59459
Surr: DNOP	83.2	70-130		%Rec	1	4/17/2021 2:11:09 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2021 9:02:00 PM	59455
Surr: BFB	96.5	70-130		%Rec	1	4/17/2021 9:02:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/17/2021 9:02:00 PM	59455
Toluene	ND	0.049		mg/Kg	1	4/17/2021 9:02:00 PM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2021 9:02:00 PM	59455
Xylenes, Total	ND	0.099		mg/Kg	1	4/17/2021 9:02:00 PM	59455
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	4/17/2021 9:02:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 12

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-23 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 11:20:00 AM

Lab ID: 2104742-004

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	61		mg/Kg	20	4/19/2021 6:57:39 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/17/2021 2:35:07 PM	59459
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/17/2021 2:35:07 PM	59459
Surr: DNOP	79.1	70-130		%Rec	1	4/17/2021 2:35:07 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/17/2021 10:22:00 PM	59455
Surr: BFB	97.4	70-130		%Rec	1	4/17/2021 10:22:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	4/17/2021 10:22:00 PM	59455
Toluene	ND	0.047		mg/Kg	1	4/17/2021 10:22:00 PM	59455
Ethylbenzene	ND	0.047		mg/Kg	1	4/17/2021 10:22:00 PM	59455
Xylenes, Total	ND	0.094		mg/Kg	1	4/17/2021 10:22:00 PM	59455
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	4/17/2021 10:22:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-24 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 11:50:00 AM

Lab ID: 2104742-005

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	4/19/2021 7:10:04 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	4/17/2021 2:59:06 PM	59459
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/17/2021 2:59:06 PM	59459
Surr: DNOP	86.0	70-130		%Rec	1	4/17/2021 2:59:06 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2021 10:41:00 PM	59455
Surr: BFB	96.8	70-130		%Rec	1	4/17/2021 10:41:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/17/2021 10:41:00 PM	59455
Toluene	ND	0.049		mg/Kg	1	4/17/2021 10:41:00 PM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2021 10:41:00 PM	59455
Xylenes, Total	ND	0.098		mg/Kg	1	4/17/2021 10:41:00 PM	59455
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	4/17/2021 10:41:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-25 East Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 12:20:00 PM

Lab ID: 2104742-006

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	4/19/2021 7:22:28 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	7.3		mg/Kg	1	4/17/2021 3:23:05 PM	59459
Motor Oil Range Organics (MRO)	ND	37		mg/Kg	1	4/17/2021 3:23:05 PM	59459
Surr: DNOP	82.0	70-130		%Rec	1	4/17/2021 3:23:05 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2021 11:01:00 PM	59455
Surr: BFB	101	70-130		%Rec	1	4/17/2021 11:01:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/17/2021 11:01:00 PM	59455
Toluene	ND	0.048		mg/Kg	1	4/17/2021 11:01:00 PM	59455
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2021 11:01:00 PM	59455
Xylenes, Total	ND	0.096		mg/Kg	1	4/17/2021 11:01:00 PM	59455
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	4/17/2021 11:01:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 12

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-26 Bottom 6"

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 12:45:00 PM

Lab ID: 2104742-007

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	61		mg/Kg	20	4/19/2021 7:34:52 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/17/2021 3:47:04 PM	59459
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/17/2021 3:47:04 PM	59459
Surr: DNOP	84.4	70-130		%Rec	1	4/17/2021 3:47:04 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/17/2021 11:21:00 PM	59455
Surr: BFB	97.0	70-130		%Rec	1	4/17/2021 11:21:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/17/2021 11:21:00 PM	59455
Toluene	ND	0.048		mg/Kg	1	4/17/2021 11:21:00 PM	59455
Ethylbenzene	ND	0.048		mg/Kg	1	4/17/2021 11:21:00 PM	59455
Xylenes, Total	ND	0.097		mg/Kg	1	4/17/2021 11:21:00 PM	59455
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	4/17/2021 11:21:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 12

Analytical Report

Lab Order 2104742

Date Reported: 4/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-27 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/13/2021 1:05:00 PM

Lab ID: 2104742-008

Matrix: SOIL

Received Date: 4/16/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	4/19/2021 7:47:16 PM	59480
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/17/2021 4:11:02 PM	59459
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/17/2021 4:11:02 PM	59459
Surr: DNOP	76.3	70-130		%Rec	1	4/17/2021 4:11:02 PM	59459
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/17/2021 11:41:00 PM	59455
Surr: BFB	97.3	70-130		%Rec	1	4/17/2021 11:41:00 PM	59455
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/17/2021 11:41:00 PM	59455
Toluene	ND	0.049		mg/Kg	1	4/17/2021 11:41:00 PM	59455
Ethylbenzene	ND	0.049		mg/Kg	1	4/17/2021 11:41:00 PM	59455
Xylenes, Total	ND	0.097		mg/Kg	1	4/17/2021 11:41:00 PM	59455
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	4/17/2021 11:41:00 PM	59455

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104742

20-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: MB-59476	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 59476	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721241 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-59476	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 59476	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721242 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.4 90 110

Sample ID: MB-59480	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 59480	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721273 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-59480	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 59480	RunNo: 76777
Prep Date: 4/19/2021	Analysis Date: 4/19/2021	SeqNo: 2721274 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.8 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104742

20-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: MB-59459	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720999 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.9	70	130			

Sample ID: LCS-59459	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2721001 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.1	68.9	141			
Surr: DNOP	3.8		5.000		76.0	70	130			

Sample ID: 2104742-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-20 Bottom 6"	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2721004 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	8.2	40.82	0	71.1	15	184			
Surr: DNOP	3.3		4.082		79.9	70	130			

Sample ID: 2104742-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SP-20 Bottom 6"	Batch ID: 59459	RunNo: 76772								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2721005 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	8.5	42.74	0	73.1	15	184	7.32	23.9	
Surr: DNOP	3.6		4.274		85.0	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 10 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104742

20-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: LCS-59455	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720133		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: MB-59455	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720134		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104742

20-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: MB-59455	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720198			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: 2104742-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-20 Bottom 6"	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720201			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9930	0	94.4	76.3	120			
Toluene	0.94	0.050	0.9930	0	94.8	78.5	120			
Ethylbenzene	0.98	0.050	0.9930	0	98.6	78.1	124			
Xylenes, Total	3.0	0.099	2.979	0.07076	97.6	79.3	125			
Surr: 4-Bromofluorobenzene	0.83		0.9930		83.5	70	130			

Sample ID: 2104742-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SP-20 Bottom 6"	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720202			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9940	0	91.0	80	120	3.65	20	
Toluene	0.91	0.050	0.9940	0	91.6	80	120	3.42	20	
Ethylbenzene	0.94	0.050	0.9940	0	94.2	80	120	4.50	20	
Xylenes, Total	2.8	0.099	2.982	0.07076	90.8	80	120	6.92	20	
Surr: 4-Bromofluorobenzene	0.81		0.9940		82.0	70	130	0	0	

Sample ID: LCS-59455	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59455	RunNo: 76758								
Prep Date: 4/16/2021	Analysis Date: 4/17/2021	SeqNo: 2720260			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 12 of 12



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Safety & Environmental Solutions**

Work Order Number: **2104742**

RcptNo: 1

Received By: **Juan Rojas**

4/16/2021 7:35:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

4/16/2021 7:50:53 AM

Cheyenne Cason

Reviewed By:

SPA 4.16.21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

TO
4/16/21

of preserved bottles checked for pH: *10*
(≤ 2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Project Manager:

Project Manager: Allen Bob

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CE): 12-21-1 (°C)

Container Preservative HEAL No. _____

Type and #	Type
2104 742	

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[illegible][illegible]

Received by: Via: Date: Time:

11/15/21

Received by: _____ Date _____ Time _____
Via: _____

✓ 10/11/21 7:35

~~Contracted to other accredited laboratories. This serves as notice of this~~

If necessary, samples submitted to Hall County Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 5/8/2024 7:34:17 AM



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

April 30, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Remuda Basin SWD 1

OrderNo.: 2104A77

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/24/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-28 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 9:00:00 AM

Lab ID: 2104A77-001

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	230	60		mg/Kg	20	4/29/2021 1:07:52 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2021 5:39:31 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 5:39:31 PM	59620
Surr: DNOP	93.8	70-130		%Rec	1	4/27/2021 5:39:31 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2021 3:53:46 AM	59619
Surr: BFB	104	70-130		%Rec	1	4/28/2021 3:53:46 AM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 3:53:46 AM	59619
Toluene	ND	0.050		mg/Kg	1	4/28/2021 3:53:46 AM	59619
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2021 3:53:46 AM	59619
Xylenes, Total	ND	0.10		mg/Kg	1	4/28/2021 3:53:46 AM	59619
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/28/2021 3:53:46 AM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-29 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 9:20:00 AM

Lab ID: 2104A77-002

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	230	60		mg/Kg	20	4/29/2021 1:45:05 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2021 5:52:18 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 5:52:18 PM	59620
Surr: DNOP	99.5	70-130		%Rec	1	4/27/2021 5:52:18 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 4:17:36 AM	59619
Surr: BFB	106	70-130		%Rec	1	4/28/2021 4:17:36 AM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/28/2021 4:17:36 AM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 4:17:36 AM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 4:17:36 AM	59619
Xylenes, Total	ND	0.097		mg/Kg	1	4/28/2021 4:17:36 AM	59619
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	4/28/2021 4:17:36 AM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 22

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2104A77
Date Reported: 4/30/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-30 East Wall
Project: Devon Remuda Basin SWD 1 Collection Date: 4/22/2021 9:45:00 AM
Lab ID: 2104A77-003 Matrix: SOIL Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	230	60		mg/Kg	20	4/29/2021 1:57:30 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/27/2021 6:05:10 PM	59620
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/27/2021 6:05:10 PM	59620
Surr: DNOP	86.8	70-130		%Rec	1	4/27/2021 6:05:10 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 4:41:26 AM	59619
Surr: BFB	106	70-130		%Rec	1	4/28/2021 4:41:26 AM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 4:41:26 AM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 4:41:26 AM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 4:41:26 AM	59619
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2021 4:41:26 AM	59619
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/28/2021 4:41:26 AM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-31 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 10:05:00 AM

Lab ID: 2104A77-004

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	69	59		mg/Kg	20	4/29/2021 2:09:54 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/27/2021 8:15:27 PM	59620
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/27/2021 8:15:27 PM	59620
Surr: DNOP	93.8	70-130		%Rec	1	4/27/2021 8:15:27 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2021 5:28:05 PM	59619
Surr: BFB	97.1	70-130		%Rec	1	4/28/2021 5:28:05 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 5:28:05 PM	59619
Toluene	ND	0.050		mg/Kg	1	4/28/2021 5:28:05 PM	59619
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2021 5:28:05 PM	59619
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2021 5:28:05 PM	59619
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	4/28/2021 5:28:05 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-32 West Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 10:30:00 AM

Lab ID: 2104A77-005

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	73	60		mg/Kg	20	4/29/2021 2:22:19 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/27/2021 8:41:10 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 8:41:10 PM	59620
Surr: DNOP	86.9	70-130		%Rec	1	4/27/2021 8:41:10 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 5:51:04 PM	59619
Surr: BFB	96.5	70-130		%Rec	1	4/28/2021 5:51:04 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 5:51:04 PM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 5:51:04 PM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 5:51:04 PM	59619
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2021 5:51:04 PM	59619
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/28/2021 5:51:04 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-33 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 10:50:00 AM

Lab ID: 2104A77-006

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	71	60		mg/Kg	20	4/29/2021 2:34:43 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/27/2021 9:06:39 PM	59620
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/27/2021 9:06:39 PM	59620
Surr: DNOP	85.2	70-130		%Rec	1	4/27/2021 9:06:39 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 6:14:12 PM	59619
Surr: BFB	97.1	70-130		%Rec	1	4/28/2021 6:14:12 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 6:14:12 PM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 6:14:12 PM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 6:14:12 PM	59619
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2021 6:14:12 PM	59619
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/28/2021 6:14:12 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-34 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 11:20:00 AM

Lab ID: 2104A77-007

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	65	60		mg/Kg	20	4/29/2021 2:47:07 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2021 6:31:06 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 6:31:06 PM	59620
Surr: DNOP	88.4	70-130		%Rec	1	4/27/2021 6:31:06 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 6:37:31 PM	59619
Surr: BFB	102	70-130		%Rec	1	4/28/2021 6:37:31 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 6:37:31 PM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 6:37:31 PM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 6:37:31 PM	59619
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2021 6:37:31 PM	59619
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	4/28/2021 6:37:31 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-35 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 1:20:00 PM

Lab ID: 2104A77-008

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	67	60		mg/Kg	20	4/29/2021 2:59:32 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2021 6:57:11 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 6:57:11 PM	59620
Surr: DNOP	85.6	70-130		%Rec	1	4/27/2021 6:57:11 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2021 7:01:02 PM	59619
Surr: BFB	103	70-130		%Rec	1	4/28/2021 7:01:02 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 7:01:02 PM	59619
Toluene	ND	0.050		mg/Kg	1	4/28/2021 7:01:02 PM	59619
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2021 7:01:02 PM	59619
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2021 7:01:02 PM	59619
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	4/28/2021 7:01:02 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-36 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 1:40:00 PM

Lab ID: 2104A77-009

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	4/29/2021 3:11:57 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2021 6:18:05 PM	59620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2021 6:18:05 PM	59620
Surr: DNOP	83.7	70-130		%Rec	1	4/27/2021 6:18:05 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2021 7:24:36 PM	59619
Surr: BFB	102	70-130		%Rec	1	4/28/2021 7:24:36 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 7:24:36 PM	59619
Toluene	ND	0.049		mg/Kg	1	4/28/2021 7:24:36 PM	59619
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2021 7:24:36 PM	59619
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2021 7:24:36 PM	59619
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	4/28/2021 7:24:36 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 22

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-37 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/22/2021 1:50:00 PM

Lab ID: 2104A77-010

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	66	60		mg/Kg	20	4/29/2021 3:24:22 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/27/2021 7:23:23 PM	59620
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/27/2021 7:23:23 PM	59620
Surr: DNOP	102	70-130		%Rec	1	4/27/2021 7:23:23 PM	59620
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2021 7:48:08 PM	59619
Surr: BFB	102	70-130		%Rec	1	4/28/2021 7:48:08 PM	59619
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2021 7:48:08 PM	59619
Toluene	ND	0.050		mg/Kg	1	4/28/2021 7:48:08 PM	59619
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2021 7:48:08 PM	59619
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2021 7:48:08 PM	59619
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	4/28/2021 7:48:08 PM	59619

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2104A77
Date Reported: 4/30/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-38 Bottom 2.5 Ft
Project: Devon Remuda Basin SWD 1 Collection Date: 4/23/2021 9:20:00 AM
Lab ID: 2104A77-011 Matrix: SOIL Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	440	59		mg/Kg	20	4/29/2021 3:36:46 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/27/2021 7:49:30 PM	59638
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/27/2021 7:49:30 PM	59638
Surr: DNOP	73.8	70-130		%Rec	1	4/27/2021 7:49:30 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/28/2021 8:11:46 PM	59631
Surr: BFB	105	70-130		%Rec	1	4/28/2021 8:11:46 PM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/28/2021 8:11:46 PM	59631
Toluene	ND	0.046		mg/Kg	1	4/28/2021 8:11:46 PM	59631
Ethylbenzene	ND	0.046		mg/Kg	1	4/28/2021 8:11:46 PM	59631
Xylenes, Total	ND	0.092		mg/Kg	1	4/28/2021 8:11:46 PM	59631
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	4/28/2021 8:11:46 PM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-39 Bottom 2.5 Ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/23/2021 9:40:00 AM

Lab ID: 2104A77-012

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	440	60		mg/Kg	20	4/29/2021 4:14:00 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/27/2021 7:59:18 PM	59638
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/27/2021 7:59:18 PM	59638
Surr: DNOP	65.1	70-130	S	%Rec	1	4/27/2021 7:59:18 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/28/2021 9:22:21 PM	59631
Surr: BFB	104	70-130		%Rec	1	4/28/2021 9:22:21 PM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/28/2021 9:22:21 PM	59631
Toluene	ND	0.048		mg/Kg	1	4/28/2021 9:22:21 PM	59631
Ethylbenzene	ND	0.048		mg/Kg	1	4/28/2021 9:22:21 PM	59631
Xylenes, Total	ND	0.096		mg/Kg	1	4/28/2021 9:22:21 PM	59631
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	4/28/2021 9:22:21 PM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-40 Bottom 2.5 Ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/23/2021 10:15:00 AM

Lab ID: 2104A77-013

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	460	59		mg/Kg	20	4/29/2021 4:26:24 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/27/2021 8:09:04 PM	59638
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/27/2021 8:09:04 PM	59638
Surr: DNOP	68.2	70-130	S	%Rec	1	4/27/2021 8:09:04 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/28/2021 11:20:06 PM	59631
Surr: BFB	104	70-130		%Rec	1	4/28/2021 11:20:06 PM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/28/2021 11:20:06 PM	59631
Toluene	ND	0.047		mg/Kg	1	4/28/2021 11:20:06 PM	59631
Ethylbenzene	ND	0.047		mg/Kg	1	4/28/2021 11:20:06 PM	59631
Xylenes, Total	ND	0.094		mg/Kg	1	4/28/2021 11:20:06 PM	59631
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	4/28/2021 11:20:06 PM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-41 Bottom 2.5 Ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/23/2021 10:40:00 AM

Lab ID: 2104A77-014

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	480	60		mg/Kg	20	4/29/2021 4:38:48 AM	59689
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/27/2021 8:18:48 PM	59638
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/27/2021 8:18:48 PM	59638
Surr: DNOP	66.7	70-130	S	%Rec	1	4/27/2021 8:18:48 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/28/2021 11:43:40 PM	59631
Surr: BFB	105	70-130		%Rec	1	4/28/2021 11:43:40 PM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/28/2021 11:43:40 PM	59631
Toluene	ND	0.048		mg/Kg	1	4/28/2021 11:43:40 PM	59631
Ethylbenzene	ND	0.048		mg/Kg	1	4/28/2021 11:43:40 PM	59631
Xylenes, Total	ND	0.095		mg/Kg	1	4/28/2021 11:43:40 PM	59631
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	4/28/2021 11:43:40 PM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2104A77
Date Reported: 4/30/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-42 Bottom 2.5 Ft
Project: Devon Remuda Basin SWD 1 Collection Date: 4/23/2021 11:05:00 AM
Lab ID: 2104A77-015 Matrix: SOIL Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	230	61		mg/Kg	20	4/29/2021 2:51:06 PM	59700
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/27/2021 8:28:31 PM	59638
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/27/2021 8:28:31 PM	59638
Surr: DNOP	62.1	70-130	S	%Rec	1	4/27/2021 8:28:31 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/29/2021 12:07:14 AM	59631
Surr: BFB	104	70-130		%Rec	1	4/29/2021 12:07:14 AM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/29/2021 12:07:14 AM	59631
Toluene	ND	0.050		mg/Kg	1	4/29/2021 12:07:14 AM	59631
Ethylbenzene	ND	0.050		mg/Kg	1	4/29/2021 12:07:14 AM	59631
Xylenes, Total	ND	0.10		mg/Kg	1	4/29/2021 12:07:14 AM	59631
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	4/29/2021 12:07:14 AM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104A77

Date Reported: 4/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-43 Bottom 2.5 Ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/23/2021 11:15:00 AM

Lab ID: 2104A77-016

Matrix: SOIL

Received Date: 4/24/2021 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	4/29/2021 3:53:08 PM	59700
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/27/2021 8:38:12 PM	59638
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/27/2021 8:38:12 PM	59638
Surr: DNOP	89.7	70-130		%Rec	1	4/27/2021 8:38:12 PM	59638
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/29/2021 12:30:42 AM	59631
Surr: BFB	105	70-130		%Rec	1	4/29/2021 12:30:42 AM	59631
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/29/2021 12:30:42 AM	59631
Toluene	ND	0.048		mg/Kg	1	4/29/2021 12:30:42 AM	59631
Ethylbenzene	ND	0.048		mg/Kg	1	4/29/2021 12:30:42 AM	59631
Xylenes, Total	ND	0.097		mg/Kg	1	4/29/2021 12:30:42 AM	59631
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	4/29/2021 12:30:42 AM	59631

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: MB-59689	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59689	RunNo: 77001								
Prep Date: 4/28/2021	Analysis Date: 4/28/2021	SeqNo: 2729981 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59689	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59689	RunNo: 77001								
Prep Date: 4/28/2021	Analysis Date: 4/28/2021	SeqNo: 2729982 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Sample ID: MB-59700	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59700	RunNo: 77029								
Prep Date: 4/29/2021	Analysis Date: 4/29/2021	SeqNo: 2731376 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59700	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59700	RunNo: 77029								
Prep Date: 4/29/2021	Analysis Date: 4/29/2021	SeqNo: 2731377 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 17 of 22

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: MB-59620	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59620	RunNo: 76960								
Prep Date: 4/25/2021	Analysis Date: 4/27/2021	SeqNo: 2728683 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	70	130			

Sample ID: LCS-59620	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59620	RunNo: 76960								
Prep Date: 4/25/2021	Analysis Date: 4/27/2021	SeqNo: 2728696 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.7	68.9	141			
Surr: DNOP	4.5		5.000		90.0	70	130			

Sample ID: MB-59638	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59638	RunNo: 76973								
Prep Date: 4/26/2021	Analysis Date: 4/27/2021	SeqNo: 2728953 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	70	130			

Sample ID: LCS-59638	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59638	RunNo: 76973								
Prep Date: 4/26/2021	Analysis Date: 4/27/2021	SeqNo: 2728954 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	68.9	141			
Surr: DNOP	5.4		5.000		108	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: mb-59619	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 59619			RunNo: 76986						
Prep Date: 4/24/2021	Analysis Date: 4/28/2021			SeqNo: 2728886		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-59619	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 59619			RunNo: 76986						
Prep Date: 4/24/2021	Analysis Date: 4/27/2021			SeqNo: 2728887		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	86.0	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: mb-59631	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 59631			RunNo: 77006						
Prep Date: 4/26/2021	Analysis Date: 4/28/2021			SeqNo: 2730067		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-59631	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 59631			RunNo: 77006						
Prep Date: 4/26/2021	Analysis Date: 4/28/2021			SeqNo: 2730068		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: 2104a77-011ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP-38 Bottom 2.5 Ft	Batch ID: 59631			RunNo: 77006						
Prep Date: 4/26/2021	Analysis Date: 4/28/2021			SeqNo: 2730070		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.56	0	96.2	61.3	114			
Surr: BFB	1100		942.5		114	70	130			

Sample ID: 2104a77-011amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP-38 Bottom 2.5 Ft	Batch ID: 59631			RunNo: 77006						
Prep Date: 4/26/2021	Analysis Date: 4/28/2021			SeqNo: 2730071		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 19 of 22

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: 2104a77-011amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: SP-38 Bottom 2.5 Ft		Batch ID: 59631		RunNo: 77006						
Prep Date: 4/26/2021		Analysis Date: 4/28/2021		SeqNo: 2730071		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.28	0	95.7	61.3	114	1.76	20	
Surr: BFB	1100		931.1		114	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: mb-59619	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59619	RunNo: 76986								
Prep Date: 4/24/2021	Analysis Date: 4/28/2021	SeqNo: 2728934 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: LCS-59619	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59619	RunNo: 76986								
Prep Date: 4/24/2021	Analysis Date: 4/27/2021	SeqNo: 2728935 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: mb-59631	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59631	RunNo: 77006								
Prep Date: 4/26/2021	Analysis Date: 4/28/2021	SeqNo: 2730103 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: LCS-59631	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59631	RunNo: 77006								
Prep Date: 4/26/2021	Analysis Date: 4/28/2021	SeqNo: 2730104 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.8	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104A77

30-Apr-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: 2104a77-012ams		SampType: MS		TestCode: EPA Method 8021B: Volatiles						
Client ID:	SP-39 Bottom 2.5 Ft	Batch ID: 59631		RunNo: 77006						
Prep Date:	4/26/2021	Analysis Date: 4/28/2021		SeqNo: 2730107			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9814	0	103	76.3	120			
Toluene	1.0	0.049	0.9814	0	106	78.5	120			
Ethylbenzene	1.0	0.049	0.9814	0	104	78.1	124			
Xylenes, Total	3.1	0.098	2.944	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	1.1		0.9814		109	70	130			

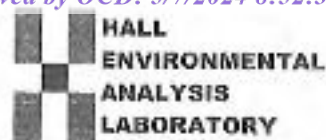
Sample ID: 2104a77-012amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: SP-39 Bottom 2.5 Ft		Batch ID: 59631		RunNo: 77006						
Prep Date: 4/26/2021		Analysis Date: 4/28/2021		SeqNo: 2730108		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9881	0	101	80	120	1.60	20	
Toluene	1.0	0.049	0.9881	0	104	80	120	1.11	20	
Ethylbenzene	1.0	0.049	0.9881	0	104	80	120	0.786	20	
Xylenes, Total	3.1	0.099	2.964	0	104	80	120	0.0858	20	
Surr: 4-Bromofluorobenzene	1.1		0.9881		109	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 22 of 22



Hall Environmental Analysis Laboratory
4991 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4167
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2104A77

ReptNo: 1

Received By: Desiree Dominguez 4/24/2021 9:10:00 AM

Completed By: Desiree Dominguez 4/24/2021 9:50:13 AM

Reviewed By: *EW 04/24/2021*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *DAD 4/24/21*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solutions
 Mailing Address: 703 E. Clinton
Hobbs N.M. 88240
 Phone #: 575-397-0510
 Email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Date	Time	Matrix	Sample Name
04/23	0920	S	SP-38 Bottom 2.5 ft
	0940	S	SP-39 Bottom 2.5 ft
	1015	S	SP-40 Bottom 2.5 ft
	1040	S	SP-41 Bottom 2.5 ft
	1105	S	SP-42 Bottom 2.5 ft
04/23	1115	S	SP-43 Bottom 1.5 ft

Date:	Time:	Relinquished by:
04/23	1600	Sam Jones
Date:	Time:	Relinquished by:
4/23/24	1900	William

Turn-Around Time:

☒ Standard ☐ Rush

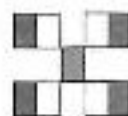
Project Name: Devon
Remuda Basin SWB I
 Project #: DEV-20-002

Project Manager: Allen, Bob
 Sampler: Sam Jones
 On loc: ☒ Yes ☐ No
 # of Coolers: 1

Cooler Temp (maxing temp): 0.3-0.0-0.3 (°C)

Container Type and #	Preservative Type	HEAL No.
1	Jel	2104A77
1	Next	-011
		-012
		-013
		-014
		-015
		-016

Received by:	Via:	Date	Time
William		4/23/24	1600
Received by:	Via:	Date	Time
William	carrier	4/24/24	9:10



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (0021)	TPH-B015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by B310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₂ , NO ₃ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X	X	X	X	X	X	X	X	X

Remarks: Bill Devon Direct



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

May 05, 2021

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Remuda Basin SWD 1

OrderNo.: 2104C30

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 17 sample(s) on 4/29/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-44 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 10:05:00 AM

Lab ID: 2104C30-001

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 1:44:17 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/1/2021 4:23:39 PM	59724
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 4:23:39 PM	59724
Surr: DNOP	101	70-130		%Rec	1	5/1/2021 4:23:39 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/30/2021 8:57:01 PM	59714
Surr: BFB	88.5	70-130		%Rec	1	4/30/2021 8:57:01 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/30/2021 8:57:01 PM	59714
Toluene	ND	0.050		mg/Kg	1	4/30/2021 8:57:01 PM	59714
Ethylbenzene	ND	0.050		mg/Kg	1	4/30/2021 8:57:01 PM	59714
Xylenes, Total	ND	0.10		mg/Kg	1	4/30/2021 8:57:01 PM	59714
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/30/2021 8:57:01 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 25

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-45 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 10:25:00 AM

Lab ID: 2104C30-002

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 1:56:41 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/1/2021 4:33:25 PM	59724
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/1/2021 4:33:25 PM	59724
Surr: DNOP	93.5	70-130		%Rec	1	5/1/2021 4:33:25 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/30/2021 9:20:45 PM	59714
Surr: BFB	90.6	70-130		%Rec	1	4/30/2021 9:20:45 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/30/2021 9:20:45 PM	59714
Toluene	ND	0.050		mg/Kg	1	4/30/2021 9:20:45 PM	59714
Ethylbenzene	ND	0.050		mg/Kg	1	4/30/2021 9:20:45 PM	59714
Xylenes, Total	ND	0.10		mg/Kg	1	4/30/2021 9:20:45 PM	59714
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/30/2021 9:20:45 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-46 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 10:45:00 AM

Lab ID: 2104C30-003

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 2:09:06 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/1/2021 4:43:10 PM	59724
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/1/2021 4:43:10 PM	59724
Surr: DNOP	94.1	70-130		%Rec	1	5/1/2021 4:43:10 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/30/2021 9:44:32 PM	59714
Surr: BFB	89.4	70-130		%Rec	1	4/30/2021 9:44:32 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/30/2021 9:44:32 PM	59714
Toluene	ND	0.048		mg/Kg	1	4/30/2021 9:44:32 PM	59714
Ethylbenzene	ND	0.048		mg/Kg	1	4/30/2021 9:44:32 PM	59714
Xylenes, Total	ND	0.096		mg/Kg	1	4/30/2021 9:44:32 PM	59714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/30/2021 9:44:32 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-47 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 11:15:00 AM

Lab ID: 2104C30-004

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	5/3/2021 2:21:30 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 4:52:56 PM	59724
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 4:52:56 PM	59724
Surr: DNOP	97.7	70-130		%Rec	1	5/1/2021 4:52:56 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/30/2021 10:55:32 PM	59714
Surr: BFB	85.7	70-130		%Rec	1	4/30/2021 10:55:32 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/30/2021 10:55:32 PM	59714
Toluene	ND	0.048		mg/Kg	1	4/30/2021 10:55:32 PM	59714
Ethylbenzene	ND	0.048		mg/Kg	1	4/30/2021 10:55:32 PM	59714
Xylenes, Total	ND	0.097		mg/Kg	1	4/30/2021 10:55:32 PM	59714
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/30/2021 10:55:32 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 25

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-48 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 11:50:00 AM

Lab ID: 2104C30-005

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	5/3/2021 2:33:55 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/1/2021 5:02:40 PM	59724
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 5:02:40 PM	59724
Surr: DNOP	99.5	70-130		%Rec	1	5/1/2021 5:02:40 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/30/2021 11:19:17 PM	59714
Surr: BFB	89.2	70-130		%Rec	1	4/30/2021 11:19:17 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/30/2021 11:19:17 PM	59714
Toluene	ND	0.047		mg/Kg	1	4/30/2021 11:19:17 PM	59714
Ethylbenzene	ND	0.047		mg/Kg	1	4/30/2021 11:19:17 PM	59714
Xylenes, Total	ND	0.094		mg/Kg	1	4/30/2021 11:19:17 PM	59714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/30/2021 11:19:17 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-49 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 1:15:00 PM

Lab ID: 2104C30-006

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	5/3/2021 2:46:19 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/1/2021 5:12:24 PM	59724
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 5:12:24 PM	59724
Surr: DNOP	128	70-130		%Rec	1	5/1/2021 5:12:24 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/30/2021 11:43:00 PM	59714
Surr: BFB	90.2	70-130		%Rec	1	4/30/2021 11:43:00 PM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/30/2021 11:43:00 PM	59714
Toluene	ND	0.047		mg/Kg	1	4/30/2021 11:43:00 PM	59714
Ethylbenzene	ND	0.047		mg/Kg	1	4/30/2021 11:43:00 PM	59714
Xylenes, Total	ND	0.094		mg/Kg	1	4/30/2021 11:43:00 PM	59714
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/30/2021 11:43:00 PM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-50 North Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 1:35:00 PM

Lab ID: 2104C30-007

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 2:58:44 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 5:22:07 PM	59724
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 5:22:07 PM	59724
Surr: DNOP	92.1	70-130		%Rec	1	5/1/2021 5:22:07 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/1/2021 12:06:33 AM	59714
Surr: BFB	89.7	70-130		%Rec	1	5/1/2021 12:06:33 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/1/2021 12:06:33 AM	59714
Toluene	ND	0.048		mg/Kg	1	5/1/2021 12:06:33 AM	59714
Ethylbenzene	ND	0.048		mg/Kg	1	5/1/2021 12:06:33 AM	59714
Xylenes, Total	ND	0.096		mg/Kg	1	5/1/2021 12:06:33 AM	59714
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/1/2021 12:06:33 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 25

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2104C30
Date Reported: 5/5/2021

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-51 West Wall
Project: Devon Remuda Basin SWD 1 Collection Date: 4/26/2021 1:50:00 PM
Lab ID: 2104C30-008 Matrix: SOIL Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 3:11:08 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/1/2021 5:31:50 PM	59724
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/1/2021 5:31:50 PM	59724
Surr: DNOP	96.0	70-130		%Rec	1	5/1/2021 5:31:50 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/1/2021 12:30:07 AM	59714
Surr: BFB	89.9	70-130		%Rec	1	5/1/2021 12:30:07 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/1/2021 12:30:07 AM	59714
Toluene	ND	0.049		mg/Kg	1	5/1/2021 12:30:07 AM	59714
Ethylbenzene	ND	0.049		mg/Kg	1	5/1/2021 12:30:07 AM	59714
Xylenes, Total	ND	0.099		mg/Kg	1	5/1/2021 12:30:07 AM	59714
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/1/2021 12:30:07 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-52 South Wall

Project: Devon Remuda Basin SWD 1

Collection Date: 4/26/2021 2:05:00 PM

Lab ID: 2104C30-009

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	5/3/2021 3:23:32 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/1/2021 5:41:37 PM	59724
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/1/2021 5:41:37 PM	59724
Surr: DNOP	90.8	70-130		%Rec	1	5/1/2021 5:41:37 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/1/2021 12:53:42 AM	59714
Surr: BFB	90.1	70-130		%Rec	1	5/1/2021 12:53:42 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/1/2021 12:53:42 AM	59714
Toluene	ND	0.050		mg/Kg	1	5/1/2021 12:53:42 AM	59714
Ethylbenzene	ND	0.050		mg/Kg	1	5/1/2021 12:53:42 AM	59714
Xylenes, Total	ND	0.10		mg/Kg	1	5/1/2021 12:53:42 AM	59714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/1/2021 12:53:42 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-53 Bottom 3 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 9:15:00 AM

Lab ID: 2104C30-010

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	350	60		mg/Kg	20	5/3/2021 4:00:46 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 5:51:31 PM	59724
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 5:51:31 PM	59724
Surr: DNOP	122	70-130		%Rec	1	5/1/2021 5:51:31 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/1/2021 1:17:13 AM	59714
Surr: BFB	88.6	70-130		%Rec	1	5/1/2021 1:17:13 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/1/2021 1:17:13 AM	59714
Toluene	ND	0.047		mg/Kg	1	5/1/2021 1:17:13 AM	59714
Ethylbenzene	ND	0.047		mg/Kg	1	5/1/2021 1:17:13 AM	59714
Xylenes, Total	ND	0.095		mg/Kg	1	5/1/2021 1:17:13 AM	59714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/1/2021 1:17:13 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-54 Bottom 2.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 9:35:00 AM

Lab ID: 2104C30-011

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	160	60		mg/Kg	20	5/3/2021 4:13:11 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/1/2021 6:01:29 PM	59724
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 6:01:29 PM	59724
Surr: DNOP	114	70-130		%Rec	1	5/1/2021 6:01:29 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/1/2021 1:40:42 AM	59714
Surr: BFB	90.7	70-130		%Rec	1	5/1/2021 1:40:42 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/1/2021 1:40:42 AM	59714
Toluene	ND	0.048		mg/Kg	1	5/1/2021 1:40:42 AM	59714
Ethylbenzene	ND	0.048		mg/Kg	1	5/1/2021 1:40:42 AM	59714
Xylenes, Total	ND	0.096		mg/Kg	1	5/1/2021 1:40:42 AM	59714
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/1/2021 1:40:42 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-55 Bottom 2.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 10:00:00 AM

Lab ID: 2104C30-012

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	360	61		mg/Kg	20	5/3/2021 4:50:24 PM	59759
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/1/2021 6:11:29 PM	59724
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/1/2021 6:11:29 PM	59724
Surr: DNOP	90.7	70-130		%Rec	1	5/1/2021 6:11:29 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/1/2021 2:04:18 AM	59714
Surr: BFB	89.8	70-130		%Rec	1	5/1/2021 2:04:18 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/1/2021 2:04:18 AM	59714
Toluene	ND	0.049		mg/Kg	1	5/1/2021 2:04:18 AM	59714
Ethylbenzene	ND	0.049		mg/Kg	1	5/1/2021 2:04:18 AM	59714
Xylenes, Total	ND	0.099		mg/Kg	1	5/1/2021 2:04:18 AM	59714
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/1/2021 2:04:18 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-56 Bottom 1.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 10:25:00 AM

Lab ID: 2104C30-013

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	60		mg/Kg	20	5/3/2021 5:52:26 PM	59772
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/1/2021 6:21:24 PM	59724
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/1/2021 6:21:24 PM	59724
Surr: DNOP	92.7	70-130		%Rec	1	5/1/2021 6:21:24 PM	59724
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/1/2021 2:28:00 AM	59714
Surr: BFB	88.8	70-130		%Rec	1	5/1/2021 2:28:00 AM	59714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/1/2021 2:28:00 AM	59714
Toluene	ND	0.046		mg/Kg	1	5/1/2021 2:28:00 AM	59714
Ethylbenzene	ND	0.046		mg/Kg	1	5/1/2021 2:28:00 AM	59714
Xylenes, Total	ND	0.093		mg/Kg	1	5/1/2021 2:28:00 AM	59714
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/1/2021 2:28:00 AM	59714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-57 Bottom 1.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 10:55:00 AM

Lab ID: 2104C30-014

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	260	60		mg/Kg	20	5/3/2021 6:54:28 PM	59772
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/1/2021 3:13:49 PM	59719
Surr: BFB	92.9	70-130		%Rec	1	5/1/2021 3:13:49 PM	59719
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/30/2021 6:19:22 PM	59723
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/30/2021 6:19:22 PM	59723
Surr: DNOP	1.75	70-130	S	%Rec	1	4/30/2021 6:19:22 PM	59723
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/1/2021 3:13:49 PM	59719
Toluene	ND	0.049		mg/Kg	1	5/1/2021 3:13:49 PM	59719
Ethylbenzene	ND	0.049		mg/Kg	1	5/1/2021 3:13:49 PM	59719
Xylenes, Total	ND	0.098		mg/Kg	1	5/1/2021 3:13:49 PM	59719
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	5/1/2021 3:13:49 PM	59719
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	5/1/2021 3:13:49 PM	59719
Surr: Dibromofluoromethane	103	70-130		%Rec	1	5/1/2021 3:13:49 PM	59719
Surr: Toluene-d8	101	70-130		%Rec	1	5/1/2021 3:13:49 PM	59719

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-58 Bottom 1.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 11:15:00 AM

Lab ID: 2104C30-015

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	5/3/2021 7:06:52 PM	59772
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/1/2021 3:40:55 PM	59719
Surr: BFB	93.7	70-130		%Rec	1	5/1/2021 3:40:55 PM	59719
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	5/1/2021 1:37:33 PM	59746
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	5/1/2021 1:37:33 PM	59746
Surr: DNOP	88.3	70-130		%Rec	1	5/1/2021 1:37:33 PM	59746
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/1/2021 3:40:55 PM	59719
Toluene	ND	0.050		mg/Kg	1	5/1/2021 3:40:55 PM	59719
Ethylbenzene	ND	0.050		mg/Kg	1	5/1/2021 3:40:55 PM	59719
Xylenes, Total	ND	0.099		mg/Kg	1	5/1/2021 3:40:55 PM	59719
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	5/1/2021 3:40:55 PM	59719
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	5/1/2021 3:40:55 PM	59719
Surr: Dibromofluoromethane	105	70-130		%Rec	1	5/1/2021 3:40:55 PM	59719
Surr: Toluene-d8	103	70-130		%Rec	1	5/1/2021 3:40:55 PM	59719

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-59 Bottom 1.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 11:35:00 AM

Lab ID: 2104C30-016

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	250	60		mg/Kg	20	5/3/2021 7:19:16 PM	59772
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/1/2021 4:08:18 PM	59719
Surr: BFB	95.5	70-130		%Rec	1	5/1/2021 4:08:18 PM	59719
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/1/2021 1:47:17 PM	59746
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/1/2021 1:47:17 PM	59746
Surr: DNOP	93.8	70-130		%Rec	1	5/1/2021 1:47:17 PM	59746
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/1/2021 4:08:18 PM	59719
Toluene	ND	0.050		mg/Kg	1	5/1/2021 4:08:18 PM	59719
Ethylbenzene	ND	0.050		mg/Kg	1	5/1/2021 4:08:18 PM	59719
Xylenes, Total	ND	0.099		mg/Kg	1	5/1/2021 4:08:18 PM	59719
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	5/1/2021 4:08:18 PM	59719
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	5/1/2021 4:08:18 PM	59719
Surr: Dibromofluoromethane	107	70-130		%Rec	1	5/1/2021 4:08:18 PM	59719
Surr: Toluene-d8	103	70-130		%Rec	1	5/1/2021 4:08:18 PM	59719

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2104C30

Date Reported: 5/5/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-60 Bottom 1.5 ft

Project: Devon Remuda Basin SWD 1

Collection Date: 4/27/2021 11:55:00 AM

Lab ID: 2104C30-017

Matrix: SOIL

Received Date: 4/29/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	77	60		mg/Kg	20	5/3/2021 7:31:40 PM	59772
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/1/2021 4:35:20 PM	59719
Surr: BFB	92.9	70-130		%Rec	1	5/1/2021 4:35:20 PM	59719
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	5/1/2021 1:57:00 PM	59746
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	5/1/2021 1:57:00 PM	59746
Surr: DNOP	118	70-130		%Rec	1	5/1/2021 1:57:00 PM	59746
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	5/1/2021 4:35:20 PM	59719
Toluene	ND	0.049		mg/Kg	1	5/1/2021 4:35:20 PM	59719
Ethylbenzene	ND	0.049		mg/Kg	1	5/1/2021 4:35:20 PM	59719
Xylenes, Total	ND	0.097		mg/Kg	1	5/1/2021 4:35:20 PM	59719
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	5/1/2021 4:35:20 PM	59719
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	5/1/2021 4:35:20 PM	59719
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/1/2021 4:35:20 PM	59719
Surr: Toluene-d8	102	70-130		%Rec	1	5/1/2021 4:35:20 PM	59719

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 17 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30

05-May-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: LCS-59759	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 59759		RunNo: 77110							
Prep Date: 5/3/2021	Analysis Date: 5/3/2021		SeqNo: 2733792		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: MB-59759	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 59759		RunNo: 77110							
Prep Date: 5/3/2021	Analysis Date: 5/3/2021		SeqNo: 2733793		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: MB-59772	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 59772		RunNo: 77110							
Prep Date: 5/3/2021	Analysis Date: 5/3/2021		SeqNo: 2733822		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59772	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 59772		RunNo: 77110							
Prep Date: 5/3/2021	Analysis Date: 5/3/2021		SeqNo: 2733823		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 18 of 25

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104C30

05-May-21

Client: Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: LCS-59724	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 59724				RunNo: 77087					
Prep Date: 4/30/2021	Analysis Date: 5/1/2021				SeqNo: 2732831	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	68.9	141			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: LCS-59746	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 59746				RunNo: 77087					
Prep Date: 4/30/2021	Analysis Date: 5/1/2021				SeqNo: 2732834	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	141			
Surr: DNOP	5.1		5.000		101	70	130			

Sample ID: MB-59724	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 59724				RunNo: 77087					
Prep Date: 4/30/2021	Analysis Date: 5/1/2021				SeqNo: 2732844	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	70	130			

Sample ID: MB-59746	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 59746				RunNo: 77087					
Prep Date: 4/30/2021	Analysis Date: 5/1/2021				SeqNo: 2732846	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.6	70	130			

Sample ID: MB-59723	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 59723				RunNo: 77092					
Prep Date: 4/29/2021	Analysis Date: 5/3/2021				SeqNo: 2733162	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30

05-May-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: LCS-59723	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59723	RunNo: 77092								
Prep Date: 4/29/2021	Analysis Date: 5/3/2021	SeqNo: 2733163			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	122	68.9	141			
Surr: DNOP	5.9		5.000		117	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30
05-May-21

Client: Safety & Environmental Solutions
Project: Devon Remuda Basin SWD 1

Sample ID: MB-59714	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 59714	RunNo: 77068								
Prep Date: 4/29/2021	Analysis Date: 4/30/2021	SeqNo: 2732562		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.4	70	130			

Sample ID: LCS-59714	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 59714	RunNo: 77068								
Prep Date: 4/29/2021	Analysis Date: 4/30/2021	SeqNo: 2732563		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.5	78.6	131			
Surr: BFB	990		1000		98.9	70	130			

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30
05-May-21

Client: Safety & Environmental Solutions
Project: Devon Remuda Basin SWD 1

Sample ID: MB-59714	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59714	RunNo: 77068								
Prep Date: 4/29/2021	Analysis Date: 4/30/2021	SeqNo: 2732606	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-59714	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59714	RunNo: 77068								
Prep Date: 4/29/2021	Analysis Date: 4/30/2021	SeqNo: 2732607	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 22 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30

05-May-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: 2104c30-015ams		SampType: MS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID:	SP-58 Bottom 1.5 ft	Batch ID: 59719		RunNo: 77069						
Prep Date:	4/29/2021	Analysis Date: 5/1/2021		SeqNo: 2732704			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9901	0	116	70	130			
Toluene	1.1	0.050	0.9901	0	114	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.4950		104	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4950		98.4	70	130			
Surr: Dibromofluoromethane	0.52		0.4950		105	70	130			
Surr: Toluene-d8	0.50		0.4950		101	70	130			

Sample ID: 2104c30-015amsd		SampType: MSD		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: SP-58 Bottom 1.5 ft		Batch ID: 59719		RunNo: 77069						
Prep Date: 4/29/2021		Analysis Date: 5/1/2021		SeqNo: 2732705		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9930	0	119	70	130	2.45	20	
Toluene	1.1	0.050	0.9930	0	113	70	130	0.111	20	
Surr: 1,2-Dichloroethane-d4	0.52		0.4965		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4965		99.0	70	130	0	0	
Surr: Dibromofluoromethane	0.55		0.4965		110	70	130	0	0	
Surr: Toluene-d8	0.51		0.4965		102	70	130	0	0	

Sample ID: lcs-59719		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS		Batch ID: 59719		RunNo: 77069						
Prep Date: 4/29/2021		Analysis Date: 5/1/2021		SeqNo: 2732715			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: mb-59719		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS		Batch ID: 59719		RunNo: 77069						
Prep Date: 4/29/2021		Analysis Date: 5/1/2021		SeqNo: 2732716		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 23 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2104C30

05-May-21

Client: Safety & Environmental Solutions

Project: Devon Remuda Basin SWD 1

Sample ID: mb-59719		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS		Batch ID: 59719		RunNo: 77069						
Prep Date: 4/29/2021		Analysis Date: 5/1/2021		SeqNo: 2732716		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2104C30****05-May-21****Client:** Safety & Environmental Solutions**Project:** Devon Remuda Basin SWD 1

Sample ID: 2104c30-014ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SP-57 Bottom 1.5 ft	Batch ID: 59719	RunNo: 77069								
Prep Date: 4/29/2021	Analysis Date: 5/1/2021	SeqNo: 2732688 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.53	0	132	49.2	122			S
Surr: BFB	470		490.7		95.8	70	130			

Sample ID: 2104c30-014amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SP-57 Bottom 1.5 ft	Batch ID: 59719	RunNo: 77069								
Prep Date: 4/29/2021	Analysis Date: 5/1/2021	SeqNo: 2732689 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.04	0	103	49.2	122	26.6	20	R
Surr: BFB	440		480.8		91.7	70	130	0	0	

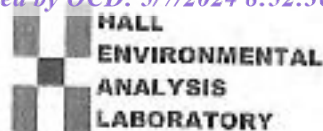
Sample ID: lcs-59719	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 59719	RunNo: 77069								
Prep Date: 4/29/2021	Analysis Date: 5/1/2021	SeqNo: 2732700 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.4	70	130			
Surr: BFB	470		500.0		93.7	70	130			

Sample ID: mb-59719	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 59719	RunNo: 77069								
Prep Date: 4/29/2021	Analysis Date: 5/1/2021	SeqNo: 2732701 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.halleenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2104C30

RepID: 1

Received By: Chayenne Cason

4/29/2021 7:35:00 AM

Chayenne

Completed By: Chayenne Cason

4/29/2021 9:00:34 AM

Chayenne

Reviewed By: ENH

4/29/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 5°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analysis were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: 10
4/29/21
(<2 or >12 unless noted)
- Adjusted? ☐
- Checked by: ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: _____

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solutions
 Mailing Address: 703 E. Chisler
Hobbs N.M. 88240
 Phone #: 575-397-0510
 email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ AZ Compliance
☐ NELAC ☐ Other
☐ EDD (Type):

Turn-Around Time:

☒ Standard ☐ RushProject Name: DevonRemuda Barn SWA 1

Project #:

Dev-20-002

Project Manager:

Aleri Bob

Sampler:

Jon SamOn Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temperature: 0.5°C, 12.0°C (°C)

Container Type and #

Preservative Type

HEAL No.

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

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019

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Chain-of-Custody Record

Client: Safety & Environmental Solutions
 Mailing Address: 703 E. Clinton
Albuquerque, NM 88240
 Phone #: 505-397-0510
 email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ RushProject Name: DevonRemuda Basin Sub I

Project #:

DEV-20-002

Project Manager:

Allen, Bsb

Sampler:

Sam LongOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temperature (°C): 0.5-0.150.4

Container Type and #

Preservative Type

HEAL No.

2100010011012013014015016017

Remarks:

Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900Received by: Sam Long Date: 4/28/21 Time: 1600Relinquished by: Sam Long Date: 4/28/21 Time: 1900

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTX / MTBE / TMBs (9021)

TPH, 8015D (GRO / DRO / MRO)

8081 Pesticides (8082 PCBs)

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₂, NO₃, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X



Environment Testing

1

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4

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ANALYTICAL REPORT

PREPARED FOR

Attn: Bob Allen
Safety & Environmental Solutions
PO BOX 1613
Hobbs, New Mexico 88241

Generated 4/3/2024 4:20:57 PM

JOB DESCRIPTION

Remuda Basin SWD 1

JOB NUMBER

885-1405-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.



Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
John Caldwell, Project Manager
john.caldwell@et.eurofinsus.com
(505)345-3975

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Laboratory Job ID: 885-1405-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	27
QC Association Summary	34
Lab Chronicle	40
Certification Summary	47
Chain of Custody	48
Receipt Checklists	50



Definitions/Glossary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

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: Safety & Environmental Solutions
Project: Remuda Basin SWD 1

Job ID: 885-1405-1

Job ID: 885-1405-1

Eurofins Albuquerque

Job Narrative 885-1405-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 3/19/2024 7:55 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 1.1°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

Method 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-2084 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Certain samples can degrade the inlet liner of the instrument causing the surrogate to degrade, thus reducing recovery. All samples have passing surrogate and no action is required. The following samples are associated Confirmation Sample 9 (885-1405-9), Confirmation Sample 10 (885-1405-10), Confirmation Sample 11 (885-1405-11), Confirmation Sample 12 (885-1405-12), Confirmation Sample 13 (885-1405-13), Confirmation Sample 14 (885-1405-14), Confirmation Sample 15 (885-1405-15), Confirmation Sample 16 (885-1405-16), Confirmation Sample 17 (885-1405-17), Confirmation Sample 18 (885-1405-18), Confirmation Sample 19 (885-1405-19), Confirmation Sample 20 (885-1405-20) and (CCV 885-2084/69).

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

HPLC/IC

Method 300_OF_28D_PREC: Due to the high concentration of Chloride, the matrix spike (MS) for preparation batch 885-2143 and analytical batch 885-2195 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 300_OF_28D_PREC: Due to the high concentration of <AffectedAnalytes>, the matrix spike duplicate (MSD) for preparation batch 885-2143 and analytical batch 885-2195 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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

Eurofins Albuquerque

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 1
Date Collected: 03/13/24 13:30
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-1
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg	-	03/19/24 14:25	03/23/24 04:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 04:05	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg	-	03/19/24 14:25	03/23/24 04:05	1	
Ethylbenzene	ND		0.049	mg/Kg	-	03/19/24 14:25	03/23/24 04:05	1	
Toluene	ND		0.049	mg/Kg	-	03/19/24 14:25	03/23/24 04:05	1	
Xylenes, Total	ND		0.098	mg/Kg	-	03/19/24 14:25	03/23/24 04:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		39 - 146			03/19/24 14:25	03/23/24 04:05	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg	-	03/21/24 14:17	03/21/24 20:16	1	
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg	-	03/21/24 14:17	03/21/24 20:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	93		62 - 134			03/21/24 14:17	03/21/24 20:16	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1500		60	mg/Kg	-	03/20/24 08:00	03/20/24 13:26	20	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 2
Date Collected: 03/13/24 13:35
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-2
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/19/24 14:25	03/23/24 04:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		15 - 244			03/19/24 14:25	03/23/24 04:28	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 04:28	1	
Ethylbenzene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 04:28	1	
Toluene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 04:28	1	
Xylenes, Total	ND		0.095	mg/Kg		03/19/24 14:25	03/23/24 04:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		39 - 146			03/19/24 14:25	03/23/24 04:28	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.7	mg/Kg		03/21/24 14:17	03/21/24 20:48	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/21/24 14:17	03/21/24 20:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	82		62 - 134			03/21/24 14:17	03/21/24 20:48	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3000		150	mg/Kg		03/20/24 08:00	04/01/24 13:42	50	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 3
Date Collected: 03/13/24 13:38
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-3
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 04:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		15 - 244			03/19/24 14:25	03/23/24 04:52		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 04:52		1
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 04:52		1
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 04:52		1
Xylenes, Total	ND		0.097	mg/Kg		03/19/24 14:25	03/23/24 04:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		39 - 146			03/19/24 14:25	03/23/24 04:52		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.5	mg/Kg		03/21/24 14:17	03/21/24 20:59		1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		03/21/24 14:17	03/21/24 20:59		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	78		62 - 134			03/21/24 14:17	03/21/24 20:59		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	140		60	mg/Kg		03/20/24 08:00	03/20/24 14:26		20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 4
Date Collected: 03/13/24 13:42
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-4
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 05:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		15 - 244			03/19/24 14:25	03/23/24 05:16	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 05:16	1	
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 05:16	1	
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 05:16	1	
Xylenes, Total	ND		0.097	mg/Kg		03/19/24 14:25	03/23/24 05:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		39 - 146			03/19/24 14:25	03/23/24 05:16	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.3	mg/Kg		03/21/24 14:17	03/21/24 21:10	1	
Motor Oil Range Organics [C28-C40]	ND		41	mg/Kg		03/21/24 14:17	03/21/24 21:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	77		62 - 134			03/21/24 14:17	03/21/24 21:10	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6600		300	mg/Kg		03/20/24 08:00	04/01/24 13:54	100	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 5
Date Collected: 03/13/24 13:47
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-5
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/19/24 14:25	03/23/24 05:39		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 05:39		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		03/19/24 14:25	03/23/24 05:39		1
Ethylbenzene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 05:39		1
Toluene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 05:39		1
Xylenes, Total	ND		0.10	mg/Kg		03/19/24 14:25	03/23/24 05:39		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		39 - 146			03/19/24 14:25	03/23/24 05:39		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.8	mg/Kg		03/21/24 14:17	03/21/24 21:20		1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		03/21/24 14:17	03/21/24 21:20		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	76		62 - 134			03/21/24 14:17	03/21/24 21:20		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2200		150	mg/Kg		03/20/24 08:00	04/01/24 14:06		50

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 6
Date Collected: 03/13/24 13:50
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg	-	03/19/24 14:25	03/23/24 06:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		15 - 244			03/19/24 14:25	03/23/24 06:03	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg	-	03/19/24 14:25	03/23/24 06:03	1	
Ethylbenzene	ND		0.049	mg/Kg	-	03/19/24 14:25	03/23/24 06:03	1	
Toluene	ND		0.049	mg/Kg	-	03/19/24 14:25	03/23/24 06:03	1	
Xylenes, Total	ND		0.097	mg/Kg	-	03/19/24 14:25	03/23/24 06:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		39 - 146			03/19/24 14:25	03/23/24 06:03	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg	-	03/21/24 14:17	03/21/24 21:31	1	
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg	-	03/21/24 14:17	03/21/24 21:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	84		62 - 134			03/21/24 14:17	03/21/24 21:31	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2000		59	mg/Kg	-	03/20/24 08:00	03/20/24 15:12	20	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 7

Lab Sample ID: 885-1405-7

Date Collected: 03/13/24 13:55

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/19/24 14:25	03/23/24 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		15 - 244			03/19/24 14:25	03/23/24 06:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/19/24 14:25	03/23/24 06:26	1
Ethylbenzene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 06:26	1
Toluene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 06:26	1
Xylenes, Total	ND		0.099	mg/Kg		03/19/24 14:25	03/23/24 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146			03/19/24 14:25	03/23/24 06:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		03/21/24 14:17	03/21/24 21:42	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/21/24 14:17	03/21/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			03/21/24 14:17	03/21/24 21:42	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		59	mg/Kg		03/20/24 08:00	03/20/24 15:27	20

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 8
Date Collected: 03/13/24 14:00
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-8
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 06:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		15 - 244			03/19/24 14:25	03/23/24 06:50	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		03/19/24 14:25	03/23/24 06:50	1	
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 06:50	1	
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 06:50	1	
Xylenes, Total	ND		0.098	mg/Kg		03/19/24 14:25	03/23/24 06:50	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		39 - 146			03/19/24 14:25	03/23/24 06:50	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		03/21/24 14:17	03/21/24 21:53	1	
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/21/24 14:17	03/21/24 21:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	77		62 - 134			03/21/24 14:17	03/21/24 21:53	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2500		150	mg/Kg		03/20/24 08:00	04/01/24 14:19	50	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 9
Date Collected: 03/13/24 14:05
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-9
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/19/24 14:25	03/23/24 07:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 07:37	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 07:37	1	
Ethylbenzene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 07:37	1	
Toluene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 07:37	1	
Xylenes, Total	ND		0.096	mg/Kg		03/19/24 14:25	03/23/24 07:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	92		39 - 146			03/19/24 14:25	03/23/24 07:37	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.4	mg/Kg		03/21/24 14:17	03/21/24 22:14	1	
Motor Oil Range Organics [C28-C40]	ND		42	mg/Kg		03/21/24 14:17	03/21/24 22:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	78		62 - 134			03/21/24 14:17	03/21/24 22:14	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2700		150	mg/Kg		03/21/24 08:29	03/22/24 16:30	50	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 10

Lab Sample ID: 885-1405-10

Date Collected: 03/13/24 14:10

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 08:24	1
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 08:24	1
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 08:24	1
Xylenes, Total	ND		0.097	mg/Kg		03/19/24 14:25	03/23/24 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146			03/19/24 14:25	03/23/24 08:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	62		9.7	mg/Kg		03/21/24 14:17	03/21/24 22:25	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/21/24 14:17	03/21/24 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			03/21/24 14:17	03/21/24 22:25	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9800		610	mg/Kg		03/21/24 08:29	03/22/24 16:45	200

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 11

Lab Sample ID: 885-1405-11

Date Collected: 03/13/24 14:15

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/19/24 14:25	03/23/24 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		15 - 244	03/19/24 14:25	03/23/24 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 08:47	1
Ethylbenzene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 08:47	1
Toluene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 08:47	1
Xylenes, Total	ND		0.096	mg/Kg		03/19/24 14:25	03/23/24 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146	03/19/24 14:25	03/23/24 08:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		03/21/24 14:17	03/21/24 22:36	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		03/21/24 14:17	03/21/24 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	79		62 - 134	03/21/24 14:17	03/21/24 22:36	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		60	mg/Kg		03/21/24 08:29	03/21/24 20:53	20

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 12
Date Collected: 03/13/24 14:20
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-12
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/19/24 14:25	03/23/24 09:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		15 - 244			03/19/24 14:25	03/23/24 09:11		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 09:11		1
Ethylbenzene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 09:11		1
Toluene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 09:11		1
Xylenes, Total	ND		0.095	mg/Kg		03/19/24 14:25	03/23/24 09:11		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		39 - 146			03/19/24 14:25	03/23/24 09:11		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		8.7	mg/Kg		03/21/24 14:17	03/21/24 22:46		1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		03/21/24 14:17	03/21/24 22:46		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	86		62 - 134			03/21/24 14:17	03/21/24 22:46		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1400		60	mg/Kg		03/21/24 08:29	03/21/24 21:05		20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 13
Date Collected: 03/13/24 14:25
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-13
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/19/24 14:25	03/23/24 09:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 09:35	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 09:35	1	
Ethylbenzene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 09:35	1	
Toluene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 09:35	1	
Xylenes, Total	ND		0.097	mg/Kg		03/19/24 14:25	03/23/24 09:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		39 - 146			03/19/24 14:25	03/23/24 09:35	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		03/21/24 14:17	03/21/24 22:57	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		03/21/24 14:17	03/21/24 22:57	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	88		62 - 134			03/21/24 14:17	03/21/24 22:57	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1800		60	mg/Kg		03/21/24 08:29	03/21/24 21:17	20	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 14

Lab Sample ID: 885-1405-14

Date Collected: 03/13/24 14:30

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7	mg/Kg		03/19/24 14:25	03/23/24 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			03/19/24 14:25	03/23/24 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 09:58	1
Ethylbenzene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 09:58	1
Toluene	ND		0.047	mg/Kg		03/19/24 14:25	03/23/24 09:58	1
Xylenes, Total	ND		0.094	mg/Kg		03/19/24 14:25	03/23/24 09:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			03/19/24 14:25	03/23/24 09:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		03/21/24 14:17	03/21/24 23:08	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/21/24 14:17	03/21/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	83		62 - 134			03/21/24 14:17	03/21/24 23:08	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		60	mg/Kg		03/21/24 08:29	03/21/24 21:30	20

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 15

Lab Sample ID: 885-1405-15

Date Collected: 03/13/24 14:35

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		15 - 244			03/19/24 14:25	03/23/24 10:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 10:22	1
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 10:22	1
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 10:22	1
Xylenes, Total	ND		0.097	mg/Kg		03/19/24 14:25	03/23/24 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		39 - 146			03/19/24 14:25	03/23/24 10:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6	mg/Kg		03/21/24 14:17	03/21/24 23:19	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		03/21/24 14:17	03/21/24 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			03/21/24 14:17	03/21/24 23:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3100		150	mg/Kg		03/22/24 08:34	03/28/24 23:23	50

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 16

Lab Sample ID: 885-1405-16

Date Collected: 03/13/24 14:40

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/19/24 14:25	03/23/24 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		15 - 244			03/19/24 14:25	03/23/24 10:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 10:45	1
Ethylbenzene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 10:45	1
Toluene	ND		0.048	mg/Kg		03/19/24 14:25	03/23/24 10:45	1
Xylenes, Total	ND		0.096	mg/Kg		03/19/24 14:25	03/23/24 10:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		39 - 146			03/19/24 14:25	03/23/24 10:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.6	mg/Kg		03/21/24 14:17	03/21/24 23:30	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		03/21/24 14:17	03/21/24 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	71		62 - 134			03/21/24 14:17	03/21/24 23:30	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		60	mg/Kg		03/22/24 08:34	03/22/24 11:49	20

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Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 17
Date Collected: 03/13/24 14:45
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-17
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 11:09		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		15 - 244			03/19/24 14:25	03/23/24 11:09		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 11:09		1
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 11:09		1
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 11:09		1
Xylenes, Total	ND		0.098	mg/Kg		03/19/24 14:25	03/23/24 11:09		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	91		39 - 146			03/19/24 14:25	03/23/24 11:09		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		03/21/24 14:17	03/21/24 23:41		1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		03/21/24 14:17	03/21/24 23:41		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	82		62 - 134			03/21/24 14:17	03/21/24 23:41		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	3400		150	mg/Kg		03/22/24 08:34	03/28/24 23:35		50

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 18
Date Collected: 03/13/24 14:50
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-18
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/19/24 14:25	03/23/24 11:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		15 - 244			03/19/24 14:25	03/23/24 11:33		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/19/24 14:25	03/23/24 11:33		1
Ethylbenzene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 11:33		1
Toluene	ND		0.049	mg/Kg		03/19/24 14:25	03/23/24 11:33		1
Xylenes, Total	ND		0.098	mg/Kg		03/19/24 14:25	03/23/24 11:33		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		39 - 146			03/19/24 14:25	03/23/24 11:33		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		03/21/24 14:17	03/21/24 23:52		1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		03/21/24 14:17	03/21/24 23:52		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	68		62 - 134			03/21/24 14:17	03/21/24 23:52		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1600		60	mg/Kg		03/22/24 08:34	03/22/24 12:19		20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 19
Date Collected: 03/13/24 14:55
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-19
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/20/24 10:25	03/27/24 13:10		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	104		15 - 244			03/20/24 10:25	03/27/24 13:10		1
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.025	mg/Kg		03/20/24 10:25	03/27/24 13:10		1
Ethylbenzene	ND		0.049	mg/Kg		03/20/24 10:25	03/27/24 13:10		1
Toluene	ND		0.049	mg/Kg		03/20/24 10:25	03/27/24 13:10		1
Xylenes, Total	ND		0.098	mg/Kg		03/20/24 10:25	03/27/24 13:10		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	96		39 - 146			03/20/24 10:25	03/27/24 13:10		1
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.0	mg/Kg		03/21/24 14:17	03/22/24 00:03		1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		03/21/24 14:17	03/22/24 00:03		1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	66		62 - 134			03/21/24 14:17	03/22/24 00:03		1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1900		59	mg/Kg		03/22/24 08:34	03/22/24 13:05		20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 20
Date Collected: 03/13/24 15:00
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-20
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		4.9	mg/Kg		03/20/24 10:25	03/27/24 14:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	108		15 - 244			03/20/24 10:25	03/27/24 14:21	1	
Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		03/20/24 10:25	03/27/24 14:21	1	
Ethylbenzene	ND		0.049	mg/Kg		03/20/24 10:25	03/27/24 14:21	1	
Toluene	ND		0.049	mg/Kg		03/20/24 10:25	03/27/24 14:21	1	
Xylenes, Total	ND		0.098	mg/Kg		03/20/24 10:25	03/27/24 14:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		39 - 146			03/20/24 10:25	03/27/24 14:21	1	
Method: SW846 8015D - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		03/21/24 14:17	03/22/24 00:14	1	
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		03/21/24 14:17	03/22/24 00:14	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	67		62 - 134			03/21/24 14:17	03/22/24 00:14	1	
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	370	F1	60	mg/Kg		03/22/24 08:34	03/22/24 13:20	20	

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 21

Lab Sample ID: 885-1405-21

Date Collected: 03/13/24 15:10

Matrix: Solid

Date Received: 03/19/24 07:55

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8	mg/Kg		03/20/24 10:25	03/27/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		15 - 244			03/20/24 10:25	03/27/24 15:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		03/20/24 10:25	03/27/24 15:32	1
Ethylbenzene	ND		0.048	mg/Kg		03/20/24 10:25	03/27/24 15:32	1
Toluene	ND		0.048	mg/Kg		03/20/24 10:25	03/27/24 15:32	1
Xylenes, Total	ND		0.097	mg/Kg		03/20/24 10:25	03/27/24 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		39 - 146			03/20/24 10:25	03/27/24 15:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		9.7	mg/Kg		03/21/24 15:26	03/25/24 12:03	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		03/21/24 15:26	03/25/24 12:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			03/21/24 15:26	03/25/24 12:03	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		150	mg/Kg		03/22/24 08:34	03/28/24 23:47	50

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-1698/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 2232						Prep Batch: 1698			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/14/24 11:22	03/22/24 10:03	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		15 - 244			03/14/24 11:22	03/22/24 10:03	1	

Lab Sample ID: MB 885-1951/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 2232						Prep Batch: 1951			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/19/24 14:25	03/23/24 01:20	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		15 - 244			03/19/24 14:25	03/23/24 01:20	1	

Lab Sample ID: LCS 885-1951/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 2232						Prep Batch: 1951			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]			25.0	25.1		mg/Kg		100	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	209		15 - 244						

Lab Sample ID: MB 885-1997/1-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 2430						Prep Batch: 1997			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		03/20/24 10:25	03/27/24 10:02	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		15 - 244			03/20/24 10:25	03/27/24 10:02	1	

Lab Sample ID: LCS 885-1997/2-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 2430						Prep Batch: 1997			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]			25.0	26.6		mg/Kg		106	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	207		15 - 244						

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-1405-19 MS

Matrix: Solid

Analysis Batch: 2430

Client Sample ID: Confirmation Sample 19

Prep Type: Total/NA

Prep Batch: 1997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.7	22.8		mg/Kg		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	209		15 - 244								

Lab Sample ID: 885-1405-19 MSD

Matrix: Solid

Analysis Batch: 2430

Client Sample ID: Confirmation Sample 19

Prep Type: Total/NA

Prep Batch: 1997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics [C6 - C10]	ND		24.5	24.5		mg/Kg	-	100	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	215		15 - 244								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-1951/1-A

Matrix: Solid

Analysis Batch: 2236

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1951

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		03/19/24 14:25	03/23/24 01:20	1
Ethylbenzene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 01:20	1
Toluene	ND		0.050	mg/Kg		03/19/24 14:25	03/23/24 01:20	1
Xylenes, Total	ND		0.10	mg/Kg		03/19/24 14:25	03/23/24 01:20	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier						
	93		39 - 146			03/19/24 14:25	03/23/24 01:20	

Lab Sample ID: LCS 885-1951/3-A

Matrix: Solid

Analysis Batch: 2236

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.908		mg/Kg		91	70 - 130
Ethylbenzene	1.00	0.938		mg/Kg		94	70 - 130
Toluene	1.00	0.929		mg/Kg		93	70 - 130
Xylenes, Total	3.00	2.84		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	98		39 - 146

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

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

Lab Sample ID: MB 885-1997/1-A

Matrix: Solid

Analysis Batch: 2431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 1997

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		03/20/24 10:25	03/27/24 10:02	1
Ethylbenzene	ND		0.050	mg/Kg		03/20/24 10:25	03/27/24 10:02	1
Toluene	ND		0.050	mg/Kg		03/20/24 10:25	03/27/24 10:02	1
Xylenes, Total	ND		0.10	mg/Kg		03/20/24 10:25	03/27/24 10:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		39 - 146	03/20/24 10:25	03/27/24 10:02	1

Lab Sample ID: LCS 885-1997/3-A

Matrix: Solid

Analysis Batch: 2431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.848		mg/Kg		85	70 - 130
Ethylbenzene	1.00	0.874		mg/Kg		87	70 - 130
Toluene	1.00	0.876		mg/Kg		88	70 - 130
Xylenes, Total	3.00	2.67		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		39 - 146

Lab Sample ID: 885-1405-20 MS

Matrix: Solid

Analysis Batch: 2431

Client Sample ID: Confirmation Sample 20

Prep Type: Total/NA

Prep Batch: 1997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.975	0.773		mg/Kg		79	70 - 130
Ethylbenzene	ND		0.975	0.835		mg/Kg		86	70 - 130
Toluene	ND		0.975	0.817		mg/Kg		84	70 - 130
Xylenes, Total	ND		2.92	2.52		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		39 - 146

Lab Sample ID: 885-1405-20 MSD

Matrix: Solid

Analysis Batch: 2431

Client Sample ID: Confirmation Sample 20

Prep Type: Total/NA

Prep Batch: 1997

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.979	0.765		mg/Kg		78	70 - 130	1	20
Ethylbenzene	ND		0.979	0.833		mg/Kg		85	70 - 130	0	20
Toluene	ND		0.979	0.810		mg/Kg		83	70 - 130	1	20
Xylenes, Total	ND		2.94	2.53		mg/Kg		86	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		39 - 146

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-2111/1-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2111

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/21/24 14:17	03/21/24 19:54	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/21/24 14:17	03/21/24 19:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	87		62 - 134			03/21/24 14:17	03/21/24 19:54	1

Lab Sample ID: LCS 885-2111/2-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.8		mg/Kg		88	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Lab Sample ID: 885-1405-1 MS

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Confirmation Sample 1

Prep Type: Total/NA

Prep Batch: 2111

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.0	44.1		mg/Kg		92	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	80		62 - 134						

Lab Sample ID: 885-1405-1 MSD

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Confirmation Sample 1

Prep Type: Total/NA

Prep Batch: 2111

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		49.9	45.7		mg/Kg		92	44 - 136	3	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	83		62 - 134								

Lab Sample ID: MB 885-2117/1-A

Matrix: Solid

Analysis Batch: 2210

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2117

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		03/21/24 15:26	03/22/24 10:06	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		03/21/24 15:26	03/22/24 10:06	1

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

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

Lab Sample ID: MB 885-2117/1-A				Client Sample ID: Method Blank			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2210				Prep Batch: 2117			
		MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	115		62 - 134	03/21/24 15:26	03/22/24 10:06	1	

Lab Sample ID: LCS 885-2117/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2210				Prep Batch: 2117			
		Spike	LCS	LCS	%Rec		
Analyte		Added	Result	Qualifier	Unit	D	%Rec Limits
Diesel Range Organics [C10-C28]		50.0	53.8		mg/Kg		108 60 - 135
		LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits				
Di-n-octyl phthalate (Surr)	114		62 - 134				

Lab Sample ID: 885-1405-21 MS				Client Sample ID: Confirmation Sample 21			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2210				Prep Batch: 2117			
		Sample	Sample	Spike	MS	MS	%Rec
Analyte		Result	Qualifier	Added	Result	Qualifier	Limits
Diesel Range Organics [C10-C28]		17		49.9	45.0		56 44 - 136
		MS	MS				
Surrogate	%Recovery	Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Lab Sample ID: 885-1405-21 MSD				Client Sample ID: Confirmation Sample 21			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2210				Prep Batch: 2117			
		Sample	Sample	Spike	MSD	MSD	%Rec
Analyte		Result	Qualifier	Added	Result	Qualifier	Limits
Diesel Range Organics [C10-C28]		17		47.3	46.2		61 44 - 136
		MSD	MSD				
Surrogate	%Recovery	Qualifier	Limits				
Di-n-octyl phthalate (Surr)	93		62 - 134				

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-1977/1-A				Client Sample ID: Method Blank			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2031				Prep Batch: 1977			
		MB	MB				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed Dil Fac
Chloride	ND		3.0	mg/Kg		03/20/24 08:00	03/20/24 08:12 1

QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-1977/2-A

Matrix: Solid

Analysis Batch: 2031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 1977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.6		mg/Kg		95	90 - 110

Lab Sample ID: MB 885-2057/1-A

Matrix: Solid

Analysis Batch: 2095

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2057

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		03/21/24 08:29	03/21/24 09:37	1

Lab Sample ID: LCS 885-2057/2-A

Matrix: Solid

Analysis Batch: 2095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.7		mg/Kg		96	90 - 110

Lab Sample ID: MB 885-2143/1-A

Matrix: Solid

Analysis Batch: 2195

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2143

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		03/22/24 08:34	03/22/24 09:35	1

Lab Sample ID: LCS 885-2143/2-A

Matrix: Solid

Analysis Batch: 2195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.6		mg/Kg		95	90 - 110

Lab Sample ID: 885-1405-20 MS

Matrix: Solid

Analysis Batch: 2195

Client Sample ID: Confirmation Sample 20

Prep Type: Total/NA

Prep Batch: 2143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	370	F1	29.8	374	4	mg/Kg		0.2	50 - 150

Lab Sample ID: 885-1405-20 MSD

Matrix: Solid

Analysis Batch: 2195

Client Sample ID: Confirmation Sample 20

Prep Type: Total/NA

Prep Batch: 2143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	370	F1	29.7	394	4	mg/Kg		69	50 - 150	5	20

Lab Sample ID: MB 885-2540/1-A

Matrix: Solid

Analysis Batch: 2590

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		04/01/24 08:56	04/01/24 13:05	1

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QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 885-2540/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 2590				Prep Batch: 2540			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	27.9		mg/Kg		93	90 - 110

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

GC VOA

Prep Batch: 1698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-1698/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 1951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	5030C	
885-1405-2	Confirmation Sample 2	Total/NA	Solid	5030C	
885-1405-3	Confirmation Sample 3	Total/NA	Solid	5030C	
885-1405-4	Confirmation Sample 4	Total/NA	Solid	5030C	
885-1405-5	Confirmation Sample 5	Total/NA	Solid	5030C	
885-1405-6	Confirmation Sample 6	Total/NA	Solid	5030C	
885-1405-7	Confirmation Sample 7	Total/NA	Solid	5030C	
885-1405-8	Confirmation Sample 8	Total/NA	Solid	5030C	
885-1405-9	Confirmation Sample 9	Total/NA	Solid	5030C	
885-1405-10	Confirmation Sample 10	Total/NA	Solid	5030C	
885-1405-11	Confirmation Sample 11	Total/NA	Solid	5030C	
885-1405-12	Confirmation Sample 12	Total/NA	Solid	5030C	
885-1405-13	Confirmation Sample 13	Total/NA	Solid	5030C	
885-1405-14	Confirmation Sample 14	Total/NA	Solid	5030C	
885-1405-15	Confirmation Sample 15	Total/NA	Solid	5030C	
885-1405-16	Confirmation Sample 16	Total/NA	Solid	5030C	
885-1405-17	Confirmation Sample 17	Total/NA	Solid	5030C	
885-1405-18	Confirmation Sample 18	Total/NA	Solid	5030C	
MB 885-1951/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1951/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1951/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 1997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-19	Confirmation Sample 19	Total/NA	Solid	5030C	
885-1405-20	Confirmation Sample 20	Total/NA	Solid	5030C	
885-1405-21	Confirmation Sample 21	Total/NA	Solid	5030C	
MB 885-1997/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-1997/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-1997/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-1405-19 MS	Confirmation Sample 19	Total/NA	Solid	5030C	
885-1405-19 MSD	Confirmation Sample 19	Total/NA	Solid	5030C	
885-1405-20 MS	Confirmation Sample 20	Total/NA	Solid	5030C	
885-1405-20 MSD	Confirmation Sample 20	Total/NA	Solid	5030C	

Analysis Batch: 2232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	8015D	1951
885-1405-2	Confirmation Sample 2	Total/NA	Solid	8015D	1951
885-1405-3	Confirmation Sample 3	Total/NA	Solid	8015D	1951
885-1405-4	Confirmation Sample 4	Total/NA	Solid	8015D	1951
885-1405-5	Confirmation Sample 5	Total/NA	Solid	8015D	1951
885-1405-6	Confirmation Sample 6	Total/NA	Solid	8015D	1951
885-1405-7	Confirmation Sample 7	Total/NA	Solid	8015D	1951
885-1405-8	Confirmation Sample 8	Total/NA	Solid	8015D	1951
885-1405-9	Confirmation Sample 9	Total/NA	Solid	8015D	1951
885-1405-10	Confirmation Sample 10	Total/NA	Solid	8015D	1951

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QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

GC VOA (Continued)

Analysis Batch: 2232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-11	Confirmation Sample 11	Total/NA	Solid	8015D	1951
885-1405-12	Confirmation Sample 12	Total/NA	Solid	8015D	1951
885-1405-13	Confirmation Sample 13	Total/NA	Solid	8015D	1951
885-1405-14	Confirmation Sample 14	Total/NA	Solid	8015D	1951
885-1405-15	Confirmation Sample 15	Total/NA	Solid	8015D	1951
885-1405-16	Confirmation Sample 16	Total/NA	Solid	8015D	1951
885-1405-17	Confirmation Sample 17	Total/NA	Solid	8015D	1951
885-1405-18	Confirmation Sample 18	Total/NA	Solid	8015D	1951
MB 885-1698/1-A	Method Blank	Total/NA	Solid	8015D	1698
MB 885-1951/1-A	Method Blank	Total/NA	Solid	8015D	1951
LCS 885-1951/2-A	Lab Control Sample	Total/NA	Solid	8015D	1951

Analysis Batch: 2236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	8021B	1951
885-1405-2	Confirmation Sample 2	Total/NA	Solid	8021B	1951
885-1405-3	Confirmation Sample 3	Total/NA	Solid	8021B	1951
885-1405-4	Confirmation Sample 4	Total/NA	Solid	8021B	1951
885-1405-5	Confirmation Sample 5	Total/NA	Solid	8021B	1951
885-1405-6	Confirmation Sample 6	Total/NA	Solid	8021B	1951
885-1405-7	Confirmation Sample 7	Total/NA	Solid	8021B	1951
885-1405-8	Confirmation Sample 8	Total/NA	Solid	8021B	1951
885-1405-9	Confirmation Sample 9	Total/NA	Solid	8021B	1951
885-1405-10	Confirmation Sample 10	Total/NA	Solid	8021B	1951
885-1405-11	Confirmation Sample 11	Total/NA	Solid	8021B	1951
885-1405-12	Confirmation Sample 12	Total/NA	Solid	8021B	1951
885-1405-13	Confirmation Sample 13	Total/NA	Solid	8021B	1951
885-1405-14	Confirmation Sample 14	Total/NA	Solid	8021B	1951
885-1405-15	Confirmation Sample 15	Total/NA	Solid	8021B	1951
885-1405-16	Confirmation Sample 16	Total/NA	Solid	8021B	1951
885-1405-17	Confirmation Sample 17	Total/NA	Solid	8021B	1951
885-1405-18	Confirmation Sample 18	Total/NA	Solid	8021B	1951
MB 885-1951/1-A	Method Blank	Total/NA	Solid	8021B	1951
LCS 885-1951/3-A	Lab Control Sample	Total/NA	Solid	8021B	1951

Analysis Batch: 2430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-19	Confirmation Sample 19	Total/NA	Solid	8015D	1997
885-1405-20	Confirmation Sample 20	Total/NA	Solid	8015D	1997
885-1405-21	Confirmation Sample 21	Total/NA	Solid	8015D	1997
MB 885-1997/1-A	Method Blank	Total/NA	Solid	8015D	1997
LCS 885-1997/2-A	Lab Control Sample	Total/NA	Solid	8015D	1997
885-1405-19 MS	Confirmation Sample 19	Total/NA	Solid	8015D	1997
885-1405-19 MSD	Confirmation Sample 19	Total/NA	Solid	8015D	1997

Analysis Batch: 2431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-19	Confirmation Sample 19	Total/NA	Solid	8021B	1997
885-1405-20	Confirmation Sample 20	Total/NA	Solid	8021B	1997
885-1405-21	Confirmation Sample 21	Total/NA	Solid	8021B	1997
MB 885-1997/1-A	Method Blank	Total/NA	Solid	8021B	1997

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QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

GC VOA (Continued)

Analysis Batch: 2431 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 885-1997/3-A	Lab Control Sample	Total/NA	Solid	8021B	1997
885-1405-20 MS	Confirmation Sample 20	Total/NA	Solid	8021B	1997
885-1405-20 MSD	Confirmation Sample 20	Total/NA	Solid	8021B	1997

GC Semi VOA

Analysis Batch: 2084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	8015D	2111
885-1405-2	Confirmation Sample 2	Total/NA	Solid	8015D	2111
885-1405-3	Confirmation Sample 3	Total/NA	Solid	8015D	2111
885-1405-4	Confirmation Sample 4	Total/NA	Solid	8015D	2111
885-1405-5	Confirmation Sample 5	Total/NA	Solid	8015D	2111
885-1405-6	Confirmation Sample 6	Total/NA	Solid	8015D	2111
885-1405-7	Confirmation Sample 7	Total/NA	Solid	8015D	2111
885-1405-8	Confirmation Sample 8	Total/NA	Solid	8015D	2111
885-1405-9	Confirmation Sample 9	Total/NA	Solid	8015D	2111
885-1405-10	Confirmation Sample 10	Total/NA	Solid	8015D	2111
885-1405-11	Confirmation Sample 11	Total/NA	Solid	8015D	2111
885-1405-12	Confirmation Sample 12	Total/NA	Solid	8015D	2111
885-1405-13	Confirmation Sample 13	Total/NA	Solid	8015D	2111
885-1405-14	Confirmation Sample 14	Total/NA	Solid	8015D	2111
885-1405-15	Confirmation Sample 15	Total/NA	Solid	8015D	2111
885-1405-16	Confirmation Sample 16	Total/NA	Solid	8015D	2111
885-1405-17	Confirmation Sample 17	Total/NA	Solid	8015D	2111
885-1405-18	Confirmation Sample 18	Total/NA	Solid	8015D	2111
885-1405-19	Confirmation Sample 19	Total/NA	Solid	8015D	2111
885-1405-20	Confirmation Sample 20	Total/NA	Solid	8015D	2111
MB 885-2111/1-A	Method Blank	Total/NA	Solid	8015D	2111
LCS 885-2111/2-A	Lab Control Sample	Total/NA	Solid	8015D	2111
885-1405-1 MS	Confirmation Sample 1	Total/NA	Solid	8015D	2111
885-1405-1 MSD	Confirmation Sample 1	Total/NA	Solid	8015D	2111

Prep Batch: 2111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	SHAKE	
885-1405-2	Confirmation Sample 2	Total/NA	Solid	SHAKE	
885-1405-3	Confirmation Sample 3	Total/NA	Solid	SHAKE	
885-1405-4	Confirmation Sample 4	Total/NA	Solid	SHAKE	
885-1405-5	Confirmation Sample 5	Total/NA	Solid	SHAKE	
885-1405-6	Confirmation Sample 6	Total/NA	Solid	SHAKE	
885-1405-7	Confirmation Sample 7	Total/NA	Solid	SHAKE	
885-1405-8	Confirmation Sample 8	Total/NA	Solid	SHAKE	
885-1405-9	Confirmation Sample 9	Total/NA	Solid	SHAKE	
885-1405-10	Confirmation Sample 10	Total/NA	Solid	SHAKE	
885-1405-11	Confirmation Sample 11	Total/NA	Solid	SHAKE	
885-1405-12	Confirmation Sample 12	Total/NA	Solid	SHAKE	
885-1405-13	Confirmation Sample 13	Total/NA	Solid	SHAKE	
885-1405-14	Confirmation Sample 14	Total/NA	Solid	SHAKE	
885-1405-15	Confirmation Sample 15	Total/NA	Solid	SHAKE	
885-1405-16	Confirmation Sample 16	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

GC Semi VOA (Continued)

Prep Batch: 2111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-17	Confirmation Sample 17	Total/NA	Solid	SHAKE	
885-1405-18	Confirmation Sample 18	Total/NA	Solid	SHAKE	
885-1405-19	Confirmation Sample 19	Total/NA	Solid	SHAKE	
885-1405-20	Confirmation Sample 20	Total/NA	Solid	SHAKE	
MB 885-2111/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2111/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-1405-1 MS	Confirmation Sample 1	Total/NA	Solid	SHAKE	
885-1405-1 MSD	Confirmation Sample 1	Total/NA	Solid	SHAKE	

Prep Batch: 2117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-21	Confirmation Sample 21	Total/NA	Solid	SHAKE	
MB 885-2117/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-2117/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-1405-21 MS	Confirmation Sample 21	Total/NA	Solid	SHAKE	
885-1405-21 MSD	Confirmation Sample 21	Total/NA	Solid	SHAKE	

Analysis Batch: 2210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-2117/1-A	Method Blank	Total/NA	Solid	8015D	2117
LCS 885-2117/2-A	Lab Control Sample	Total/NA	Solid	8015D	2117
885-1405-21 MS	Confirmation Sample 21	Total/NA	Solid	8015D	2117
885-1405-21 MSD	Confirmation Sample 21	Total/NA	Solid	8015D	2117

Analysis Batch: 2257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-21	Confirmation Sample 21	Total/NA	Solid	8015D	2117

HPLC/IC

Prep Batch: 1977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	300_Prep	
885-1405-2	Confirmation Sample 2	Total/NA	Solid	300_Prep	
885-1405-3	Confirmation Sample 3	Total/NA	Solid	300_Prep	
885-1405-4	Confirmation Sample 4	Total/NA	Solid	300_Prep	
885-1405-5	Confirmation Sample 5	Total/NA	Solid	300_Prep	
885-1405-6	Confirmation Sample 6	Total/NA	Solid	300_Prep	
885-1405-7	Confirmation Sample 7	Total/NA	Solid	300_Prep	
885-1405-8	Confirmation Sample 8	Total/NA	Solid	300_Prep	
MB 885-1977/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-1977/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 2031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-1	Confirmation Sample 1	Total/NA	Solid	300.0	1977
885-1405-3	Confirmation Sample 3	Total/NA	Solid	300.0	1977
885-1405-6	Confirmation Sample 6	Total/NA	Solid	300.0	1977
885-1405-7	Confirmation Sample 7	Total/NA	Solid	300.0	1977
MB 885-1977/1-A	Method Blank	Total/NA	Solid	300.0	1977
LCS 885-1977/2-A	Lab Control Sample	Total/NA	Solid	300.0	1977

Eurofins Albuquerque

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

HPLC/IC

Prep Batch: 2057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-9	Confirmation Sample 9	Total/NA	Solid	300_Prep	
885-1405-10	Confirmation Sample 10	Total/NA	Solid	300_Prep	
885-1405-11	Confirmation Sample 11	Total/NA	Solid	300_Prep	
885-1405-12	Confirmation Sample 12	Total/NA	Solid	300_Prep	
885-1405-13	Confirmation Sample 13	Total/NA	Solid	300_Prep	
885-1405-14	Confirmation Sample 14	Total/NA	Solid	300_Prep	
MB 885-2057/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2057/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 2095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-11	Confirmation Sample 11	Total/NA	Solid	300.0	2057
885-1405-12	Confirmation Sample 12	Total/NA	Solid	300.0	2057
885-1405-13	Confirmation Sample 13	Total/NA	Solid	300.0	2057
885-1405-14	Confirmation Sample 14	Total/NA	Solid	300.0	2057
MB 885-2057/1-A	Method Blank	Total/NA	Solid	300.0	2057
LCS 885-2057/2-A	Lab Control Sample	Total/NA	Solid	300.0	2057

Prep Batch: 2143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-15	Confirmation Sample 15	Total/NA	Solid	300_Prep	
885-1405-16	Confirmation Sample 16	Total/NA	Solid	300_Prep	
885-1405-17	Confirmation Sample 17	Total/NA	Solid	300_Prep	
885-1405-18	Confirmation Sample 18	Total/NA	Solid	300_Prep	
885-1405-19	Confirmation Sample 19	Total/NA	Solid	300_Prep	
885-1405-20	Confirmation Sample 20	Total/NA	Solid	300_Prep	
885-1405-21	Confirmation Sample 21	Total/NA	Solid	300_Prep	
MB 885-2143/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2143/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-1405-20 MS	Confirmation Sample 20	Total/NA	Solid	300_Prep	
885-1405-20 MSD	Confirmation Sample 20	Total/NA	Solid	300_Prep	

Analysis Batch: 2195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-9	Confirmation Sample 9	Total/NA	Solid	300.0	2057
885-1405-10	Confirmation Sample 10	Total/NA	Solid	300.0	2057
885-1405-16	Confirmation Sample 16	Total/NA	Solid	300.0	2143
885-1405-18	Confirmation Sample 18	Total/NA	Solid	300.0	2143
885-1405-19	Confirmation Sample 19	Total/NA	Solid	300.0	2143
885-1405-20	Confirmation Sample 20	Total/NA	Solid	300.0	2143
MB 885-2143/1-A	Method Blank	Total/NA	Solid	300.0	2143
LCS 885-2143/2-A	Lab Control Sample	Total/NA	Solid	300.0	2143
885-1405-20 MS	Confirmation Sample 20	Total/NA	Solid	300.0	2143
885-1405-20 MSD	Confirmation Sample 20	Total/NA	Solid	300.0	2143

Analysis Batch: 2473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-15	Confirmation Sample 15	Total/NA	Solid	300.0	2143
885-1405-17	Confirmation Sample 17	Total/NA	Solid	300.0	2143
885-1405-21	Confirmation Sample 21	Total/NA	Solid	300.0	2143

Eurofins Albuquerque

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

HPLC/IC

Prep Batch: 2540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-2540/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-2540/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 2590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-1405-2	Confirmation Sample 2	Total/NA	Solid	300.0	1977
885-1405-4	Confirmation Sample 4	Total/NA	Solid	300.0	1977
885-1405-5	Confirmation Sample 5	Total/NA	Solid	300.0	1977
885-1405-8	Confirmation Sample 8	Total/NA	Solid	300.0	1977
MB 885-2540/1-A	Method Blank	Total/NA	Solid	300.0	2540
LCS 885-2540/2-A	Lab Control Sample	Total/NA	Solid	300.0	2540

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 1

Lab Sample ID: 885-1405-1

Date Collected: 03/13/24 13:30

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 04:05
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 04:05
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 20:16
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 13:26

Client Sample ID: Confirmation Sample 2

Lab Sample ID: 885-1405-2

Date Collected: 03/13/24 13:35

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 04:28
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 04:28
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 20:48
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		50	2590	KB	EET ALB	04/01/24 13:42

Client Sample ID: Confirmation Sample 3

Lab Sample ID: 885-1405-3

Date Collected: 03/13/24 13:38

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 04:52
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 04:52
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 20:59
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 14:26

Client Sample ID: Confirmation Sample 4

Lab Sample ID: 885-1405-4

Date Collected: 03/13/24 13:42

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 05:16

Eurofins Albuquerque

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 4

Lab Sample ID: 885-1405-4

Date Collected: 03/13/24 13:42

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 05:16
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 21:10
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		100	2590	KB	EET ALB	04/01/24 13:54

Client Sample ID: Confirmation Sample 5

Lab Sample ID: 885-1405-5

Date Collected: 03/13/24 13:47

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 05:39
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 05:39
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 21:20
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		50	2590	KB	EET ALB	04/01/24 14:06

Client Sample ID: Confirmation Sample 6

Lab Sample ID: 885-1405-6

Date Collected: 03/13/24 13:50

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 06:03
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 06:03
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 21:31
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 15:12

Client Sample ID: Confirmation Sample 7

Lab Sample ID: 885-1405-7

Date Collected: 03/13/24 13:55

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 06:26
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 06:26

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Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 7

Lab Sample ID: 885-1405-7

Date Collected: 03/13/24 13:55

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 21:42
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		20	2031	JT	EET ALB	03/20/24 15:27

Client Sample ID: Confirmation Sample 8

Lab Sample ID: 885-1405-8

Date Collected: 03/13/24 14:00

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 06:50
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 06:50
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 21:53
Total/NA	Prep	300_Prep			1977	JT	EET ALB	03/20/24 08:00
Total/NA	Analysis	300.0		50	2590	KB	EET ALB	04/01/24 14:19

Client Sample ID: Confirmation Sample 9

Lab Sample ID: 885-1405-9

Date Collected: 03/13/24 14:05

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 07:37
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 07:37
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 22:14
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		50	2195	KB	EET ALB	03/22/24 16:30

Client Sample ID: Confirmation Sample 10

Lab Sample ID: 885-1405-10

Date Collected: 03/13/24 14:10

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 08:24
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 08:24
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 22:25

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Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 10

Lab Sample ID: 885-1405-10

Date Collected: 03/13/24 14:10

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		200	2195	KB	EET ALB	03/22/24 16:45

Client Sample ID: Confirmation Sample 11

Lab Sample ID: 885-1405-11

Date Collected: 03/13/24 14:15

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 08:47
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 08:47
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 22:36
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		20	2095	JT	EET ALB	03/21/24 20:53

Client Sample ID: Confirmation Sample 12

Lab Sample ID: 885-1405-12

Date Collected: 03/13/24 14:20

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 09:11
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 09:11
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 22:46
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		20	2095	JT	EET ALB	03/21/24 21:05

Client Sample ID: Confirmation Sample 13

Lab Sample ID: 885-1405-13

Date Collected: 03/13/24 14:25

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 09:35
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 09:35
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 22:57
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		20	2095	JT	EET ALB	03/21/24 21:17

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Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 14

Lab Sample ID: 885-1405-14

Date Collected: 03/13/24 14:30

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 09:58
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 09:58
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 23:08
Total/NA	Prep	300_Prep			2057	JT	EET ALB	03/21/24 08:29
Total/NA	Analysis	300.0		20	2095	JT	EET ALB	03/21/24 21:30

Client Sample ID: Confirmation Sample 15

Lab Sample ID: 885-1405-15

Date Collected: 03/13/24 14:35

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 10:22
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 10:22
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 23:19
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		50	2473	KB	EET ALB	03/28/24 23:23

Client Sample ID: Confirmation Sample 16

Lab Sample ID: 885-1405-16

Date Collected: 03/13/24 14:40

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 10:45
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 10:45
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 23:30
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		20	2195	KB	EET ALB	03/22/24 11:49

Client Sample ID: Confirmation Sample 17

Lab Sample ID: 885-1405-17

Date Collected: 03/13/24 14:45

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 11:09

Eurofins Albuquerque

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 17

Lab Sample ID: 885-1405-17

Date Collected: 03/13/24 14:45

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 11:09
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 23:41
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		50	2473	KB	EET ALB	03/28/24 23:35

Client Sample ID: Confirmation Sample 18

Lab Sample ID: 885-1405-18

Date Collected: 03/13/24 14:50

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8015D		1	2232	JP	EET ALB	03/23/24 11:33
Total/NA	Prep	5030C			1951	IMR	EET ALB	03/19/24 14:25
Total/NA	Analysis	8021B		1	2236	JP	EET ALB	03/23/24 11:33
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/21/24 23:52
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		20	2195	KB	EET ALB	03/22/24 12:19

Client Sample ID: Confirmation Sample 19

Lab Sample ID: 885-1405-19

Date Collected: 03/13/24 14:55

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8015D		1	2430	JP	EET ALB	03/27/24 13:10
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8021B		1	2431	JP	EET ALB	03/27/24 13:10
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/22/24 00:03
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		20	2195	KB	EET ALB	03/22/24 13:05

Client Sample ID: Confirmation Sample 20

Lab Sample ID: 885-1405-20

Date Collected: 03/13/24 15:00

Matrix: Solid

Date Received: 03/19/24 07:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8015D		1	2430	JP	EET ALB	03/27/24 14:21
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8021B		1	2431	JP	EET ALB	03/27/24 14:21

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Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Client Sample ID: Confirmation Sample 20
Date Collected: 03/13/24 15:00
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			2111	PD	EET ALB	03/21/24 14:17
Total/NA	Analysis	8015D		1	2084	PD	EET ALB	03/22/24 00:14
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		20	2195	KB	EET ALB	03/22/24 13:20

Client Sample ID: Confirmation Sample 21
Date Collected: 03/13/24 15:10
Date Received: 03/19/24 07:55

Lab Sample ID: 885-1405-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8015D		1	2430	JP	EET ALB	03/27/24 15:32
Total/NA	Prep	5030C			1997	IMR	EET ALB	03/20/24 10:25
Total/NA	Analysis	8021B		1	2431	JP	EET ALB	03/27/24 15:32
Total/NA	Prep	SHAKE			2117	SB	EET ALB	03/21/24 15:26
Total/NA	Analysis	8015D		1	2257	PD	EET ALB	03/25/24 12:03
Total/NA	Prep	300_Prep			2143	JT	EET ALB	03/22/24 08:34
Total/NA	Analysis	300.0		50	2473	KB	EET ALB	03/28/24 23:47

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Safety & Environmental Solutions
Project/Site: Remuda Basin SWD 1

Job ID: 885-1405-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total
Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Safety & Solutions Environmental

Solutions Inc.

Mailing Address: 703 N ClintonHobbs NM 88240Phone #: (575) 397 0510email/Dor Fax#: rmadness@sesi-nm.comQA/QC Package: ballen@sesi-nm.com
office2@sesi-nm.com☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 DAYProject Name: DevonRemuda Basin SWD 1

Project #:

DEV-20-002

Project Manager:

Allen, BobSampler: Roberto MadnessOn Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CFI): 9 to 2 = 1.1 (°C)

Container Type and #

Preservative Type

HEAL No.

-1

-2

-3

-4

-5

-6

-7

-8

-9

-10

Date: 3-15-24Time: 1000

Relinquished by:

Roberto MadnessDate: 3/16/24Time: 1400

Relinquished by:

Roberto Madness

Received by:

Roberto MadnessDate: 3/16/24Time: 0800

Via:

currierDate: 3/19/24Time: 7:55

Received by:

currierDate: 3/19/24Time: 7:55

Received by:

currierDate: 3/19/24Time: 7:55

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Received by:

currierDate: 3/19/24

Chain-of-Custody Record

Client: Safety & Environmental Solutions Inc

Mailing Address: 703 Clinton St

Hobbs NM 88240

Phone #: (575) 397-0510

Email or Fax#: rmartinez@sesi-nm.com

QA/QC Package Office 2@sesi-nm.com

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ AZ Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Remuda Basin SWD

Project #:

DEV-20-002

Project Manager:

Allen, Bob

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers:

1Cooler Temp (Including Off): 91.0.2 = 1.1 (°C)

Container Type and #

Preservative Type

HEAL No.

40911112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100101102103104105106107108109110111112113114115116117118119120121122123124125126127128129130131132133134135136137138139140141142143144145146147148149150151152153154155156157158159160161162163164165166167168169170171172173174175176177178179180181182183184185186187188189190191192193194195196197198199200201202203204205206207208209210211212213214215216217218219220221222223224225226227228229230231232233234235236237238239240241242243244245246247248249250251252253254255256257258259260261262263264265266267268269270271272273274275276277278279280281282283284285286287288289290291292293294295296297298299300301302303304305306307308309310311312313314315316317318319

Login Sample Receipt Checklist

Client: Safety & Environmental Solutions

Job Number: 885-1405-1

Login Number: 1405

List Number: 1

Creator: Lowman, Nick

List Source: Eurofins Albuquerque

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

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QUESTIONS

Action 341501

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341501
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2014561795
Incident Name	NRM2014561795 REMUDA BASIN 20 FED 1 SWD @ 30-015-29549
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-29549] REMUDA BASIN SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	REMUDA BASIN 20 FED 1 SWD
Date Release Discovered	12/03/2019
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 13 BBL Recovered: 0 BBL Lost: 13 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 341501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	341501
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 05/07/2024
--	--

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QUESTIONS, Page 3

Action 341501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	341501
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	600
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	100
GRO+DRO	(EPA SW-846 Method 8015M)	100
BTEX	(EPA SW-846 Method 8021B or 8260B)	50
Benzene	(EPA SW-846 Method 8021B or 8260B)	10

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

On what estimated date will the remediation commence	05/15/2024
On what date will (or did) the final sampling or liner inspection occur	07/08/2024
On what date will (or was) the remediation complete(d)	07/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	9800
What is the estimated volume (in cubic yards) that will be reclaimed	750
What is the estimated surface area (in square feet) that will be remediated	9800
What is the estimated volume (in cubic yards) that will be remediated	750

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 341501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341501
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 05/07/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 341501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341501
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 341501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341501
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	321351
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/13/2024
What was the (estimated) number of samples that were to be gathered	18
What was the sampling surface area in square feet	3600

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 341501

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 341501
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation work plan approved. Submit a report via the OCD permitting portal by September 10, 2024.	5/8/2024