Volume calculator

There was no volume calculator prepared when the spill occurred.

Devon Energy
Ross Ranch 10 Fed #001

Deferral Request Report
Section 10, T26S, R31E
Lea County, New Mexico

Incident ID: nAB1915042001 (2RP-5457)

June 18, 2020
Amended July 16, 2024

Prepared for:
Devon Energy
P.O. Box 250
Artesia, NM 88211

By:
Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510

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

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site remediation on the Ross Ranch 10 Fed #001.

According to the C-141's beginning with the latest incident: Lightning struck the water tank on May 13, 2019. This caused the bottom of the tank to become severed. The tank was located inside the containment. All fluids emptied into the containment. This would create a major reconstruction of this area of the facility, therefore SESI was consulted to remediate the site. Impacted area at the site was remediated in accordance with NMOCD and BLM guidelines respectively to close all open remediation permits.

Surface and Ground Water

According to research of The New Mexico Office of the State Engineer there were no records for Township 26S, Range 31E, and Section 10, however the records indicate depth to groundwater to be an average of 317' bgs. for this area. The nearest POD for this site is C 02090 with a depth to water of 335' bgs.

On April 17, 2023, a temporary well with the identifier POD 1 (TW-1)/OSE File Number C-4700 was drilled 55 feet below the surface of the ground. No groundwater was discovered. The POD is located approximately 0.35 miles northwest of the Ross Ranch 10 Fed #001.

Characterization

This has been remediated in accordance the NMOCD published guidelines (July 24, 2018). The site ranking and soil screening levels as presented in the table below:

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	EPA SW-846 Method 8015M	2,500 mg/kg

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**
	(GRO+DRO+MRO)		
	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]

The soil classification for this area is of the Simona-Pajarito association: Sandy, deep soils and soils that are shallow to caliche, from wind-worked deposits.

Work Performed

Incident ID: nAB1915042001 (Remediation Permit Number 2RP-5457)

June 07, 2019, SESI was onsite to determine the locations for auger hole installation for soil testing of the release area. At this time all tanks from the battery had been relocated and reconstruction had begun, due to the lightening strike that occurred at the facility on May 13, 2019. There were a total of twelve (12) auger holes installed. Soil samples were collected from the spill location at both the surface level and a depth of 1'.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (Cl Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy Ross Ranch 10 Fed 1 SWD Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. Tank Area 06/07/2019								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
AH-1 Surface	1200	ND	ND	ND	ND	ND	ND	ND
AH-1 @ 1ft	710	ND	ND	ND	ND	ND	ND	ND
AH-2 Surface	1200	ND	ND	ND	ND	ND	120	100
AH-2 @ 1ft	460	ND	ND	ND	ND	ND	ND	ND
AH-3 Surface	170	ND	ND	ND	ND	ND	11	ND
AH-3 @ 1ft	160	ND	ND	ND	ND	ND	14	ND
AH-4 Surface	4300	ND	ND	ND	ND	ND	ND	ND
AH-4 @ 1ft	130	ND	ND	ND	ND	ND	ND	ND
AH-5 Surface	2200	ND	ND	ND	ND	ND	**3100**	**2700**

Devon Energy Ross Ranch 10 Fed 1 SWD Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. Tank Area 06/07/2019								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
AH-5 @ 1ft	110	ND	ND	ND	ND	ND	25	ND
AH-6 Surface	2800	ND	ND	ND	ND	ND	**2400**	**1500**
AH-6 @ 1ft	99	ND	ND	ND	ND	ND	ND	ND
AH-7 Surface	1300	ND	ND	ND	ND	ND	15	ND
AH-7 @ 1ft	5100	ND	ND	ND	ND	ND	80	72
AH-8 Surface	4700	ND	ND	ND	ND	ND	110	92
AH-8 @ 1ft	6100	ND	ND	ND	ND	ND	77	70
AH-9 Surface	2300	ND	ND	ND	ND	ND	160	170
AH-9 @ 1ft	1000	ND	ND	ND	ND	ND	22	ND
AH-10 Surface	700	ND	ND	ND	ND	ND	940	750
AH-10 @ 1ft	1500	ND	ND	ND	ND	ND	16	ND
AH-11 Surface	4700	ND	ND	ND	ND	ND	56	75
AH-11 @ 1ft	1500	ND	ND	ND	ND	ND	28	ND
AH-12 Surface	2100	ND	ND	ND	ND	ND	ND	ND
AH-12 @ 1ft	1500	ND	ND	ND	ND	ND	17	ND

Sample results indicate that all samples were below Table 1 standards, except AH-5 Surface Sample and AH-6 Surface Sample. AH-5 and AH-6 were both excavated to a depth of 1' in the same sampling and the TPH level results on both were below Table 1 Standards.

On September 7, 2023, SESI was onsite to collect confirmation samples. There were a total of twelve (12) confirmation samples collected from the north side of the battery containment.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (Cl Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy Ross Ranch 10 Fed 1 SWD Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. Tank Area 09/07/2023								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
SP1-Surface (CS)	ND	ND	ND	ND	ND	ND	160	220
SP1-1 ft (CS)	ND	ND	ND	ND	ND	ND	ND	ND
SP1-2 ft (CS)	ND	ND	ND	ND	ND	ND	ND	ND
SP2-Surface (CS)	230	ND	ND	ND	ND	ND	ND	ND
SP2-1 ft (CS)	ND	ND	ND	ND	ND	ND	ND	ND
SP2-2 ft (CS)	74	ND	ND	ND	ND	ND	ND	ND
SP3-Surface (CS)	1100	ND	ND	ND	ND	ND	26	71

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. Tank Area 09/07/2023								
Sample ID	**Chloride (mg/kg)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethyl Benzene (mg/kg)**	**Total Xylenes (mg/kg)**	**GRO (mg/kg)**	**DRO (mg/kg)**	**MRO (mg/kg)**
SP3-1 ft (CS)	ND	ND	ND	ND	ND	ND	ND	ND
SP3-2 ft (CS)	ND	ND	ND	ND	ND	ND	ND	ND
SP4-Surface (CS)	320	ND	ND	ND	ND	ND	ND	ND
SP4-1 ft (CS)	520	ND	ND	ND	ND	ND	ND	ND
SP4-2 ft (CS)	190	ND	ND	ND	ND	ND	14	49

The above sample results indicate that all samples are below Table 1 standards.

On June 19, 2024, SESI was onsite to collect confirmation samples, at the request of Deveon Energy. A total of 17 confirmation samples were taken.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (Cl Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. Tank Area 06/19/2024								
Sample ID	**Chloride (mg/kg)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethyl Benzene (mg/kg)**	**Total Xylenes (mg/kg)**	**GRO (mg/kg)**	**DRO (mg/kg)**	**MRO (mg/kg)**
CS5 – Surface	82	ND	ND	ND	ND	ND	ND	ND
CS5 - 1 ft	200	ND	ND	ND	ND	ND	ND	ND
CS6 - Surface	440	ND	ND	ND	ND	ND	ND	ND
CS6 -1 ft	170	ND	ND	ND	ND	ND	ND	ND
CS7 -Surface	170	ND	ND	ND	ND	ND	ND	ND
CS7 - 1 ft	440	ND	ND	ND	ND	ND	ND	ND
CS8 - Surface	2400	ND	ND	ND	ND	ND	ND	ND
CS8 – 1 ft	2100	ND	ND	ND	ND	ND	ND	ND
CS8 – 2 ft	1900	ND	ND	ND	ND	ND	ND	ND
CS8 – 3 ft	1400	ND	ND	ND	ND	ND	ND	ND
CS8 – 4 ft	2200	ND	ND	ND	ND	ND	ND	ND
CS9 – Surface	140	ND	ND	ND	ND	ND	ND	ND
CS9 – 1 ft	170	ND	ND	ND	ND	ND	ND	ND
CS10 – Surface	ND	ND	ND	ND	ND	ND	ND	ND
CS10 – 1ft	ND	ND	ND	ND	ND	ND	ND	ND
CS11 – Surface	ND	ND	ND	ND	ND	ND	11	ND
CS11 – 1 ft	78	ND	ND	ND	ND	ND	ND	ND

The above sample results are below Table 1 Standards. CS8 was sampled at the surface and in 1 foot intervals up to 4 foot where refusal occurred. If you refer to the attached Map you will notice that CS8 is located immediately adjacent to the southwest corner of the containment wall. Excavation in the area where CS8 is located is not safe due to current infrastructure of the battery.

Conclusion

The remedial actions taken at the time of the release was to recover the entire volume of the fluid released into the lined containment. No fluids were released to the environment. All of the above sample results that have been provided above meet the Table 1 requirements, except 06/19/2024 CS-8. This sample point is located immediately adjacent to the southwest corner of the containment, current infrastructure causes this area to not be remediated without compromising the integrity of the infrastructure. On behalf of Devon Energy, SESI respectfully requests deferral of the small area at sample point CS8 until closure of the facility.

Supplemental Documentation

Document 1: Vicinity Map
Document 2: OSE Information
Document 3: NMOCD Oil and Gas Map
Document 4: BLM Cave Karst Map
Document 5: FEMA Floodplain Map
Document 6: Photographs of area
Document 7: Lab Analysis
Document 8: C-141 initial, final

Devon

Ross Ranch

nAB1915042001

2RP-5457

Legend

Yellow – 06/07/19 - AH-1 to AH-12

Red – 09/07/23 – SP-1 to SP-4 (CS)

Green – 06/19/24 – CS-5 to CS-11

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, NM 88240
(575) 397-0510

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01777		C	ED				08	26S	31E	613245	3547409*	325	300	25
C 02090		C	ED		4	4	01	26S	31E	620329	3548533*	350	335	15
C 02248		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 02249		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 03554 POD1		CUB	ED	2	1	4	01	26S	31E	620547	3549148	630	300	330
C 03639 POD1		CUB	ED	3	4	2	01	26S	31E	620168	3549279	700	365	335
C 04256 POD1		C	ED	4	4	2	01	26S	31E	620384	3549257	666	340	326

Average Depth to Water: **317 feet**

Minimum Depth: **292 feet**

Maximum Depth: **365 feet**

Record Count: 7

PLSS Search:

Township: 26S **Range:** 31E

***UTM location was derived from PLSS - see Help**

6/7/19 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice 575.624.2420
fax: 575.624.2421
www.atkinseng.com

April 26, 2023

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well RecordC-04700 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-04700 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-04700

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Devon Energy	575-748-1838

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6488 7 Rivers Hwy	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	3	48.97	N
	LONGITUDE	103	45	47.89	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE NW NE Sec.10 T26S R31E NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4/17/23	4/17/23	Temporary Well Material	±55	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 4/25/23

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	±6.25	Soil Boring	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	4	4	Sand, medium-fine grained, poorly, graded, unconsolidated, brown	Y ✓ N	
4	30	36	Caliche, with silt semi-consolidated, white/tan	Y ✓ N	
30	55	25	Sand, fine- grained, poorly, graded, unconsolidated, tan	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
36
Snapping 10 Federal 1H

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 4/26/23

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-04700 POD-1

Well owner: Devon Energy Phone No.: 575-748-1838

Mailing address: 6488 7 Rivers Hwy

City: Artesia State: New Mexico Zip code: 88210

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)

2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/25

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Lupe Leyba

4) Date well plugging began: 4/25/23 Date well plugging concluded: 4/25/23

5) GPS Well Location: Latitude: 32 deg, 3 min, 48.97 sec
Longitude: 103 deg, 45 min, 47.89 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: n/a ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 1/25/2023

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Version: September 8, 2009
Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
	10'-55' Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jackie Atkins — Signature of Well Driller

4/26/23 — Date

Version: September 8, 2009
Page 2 of 2

36-C-4700-WR-20 Well Record and Log-packet-forsign

Final Audit Report 2023-04-26

Created:	2023-04-26
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA7kP8N6FF5p7DLtbacrXsBro4EK6_I7in

"36-C-4700-WR-20 Well Record and Log-packet-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2023-04-26 - 3:25:06 PM GMT- IP address: 64.17.82.146

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2023-04-26 - 3:25:29 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2023-04-26 - 3:51:06 PM GMT- IP address: 64.90.153.232

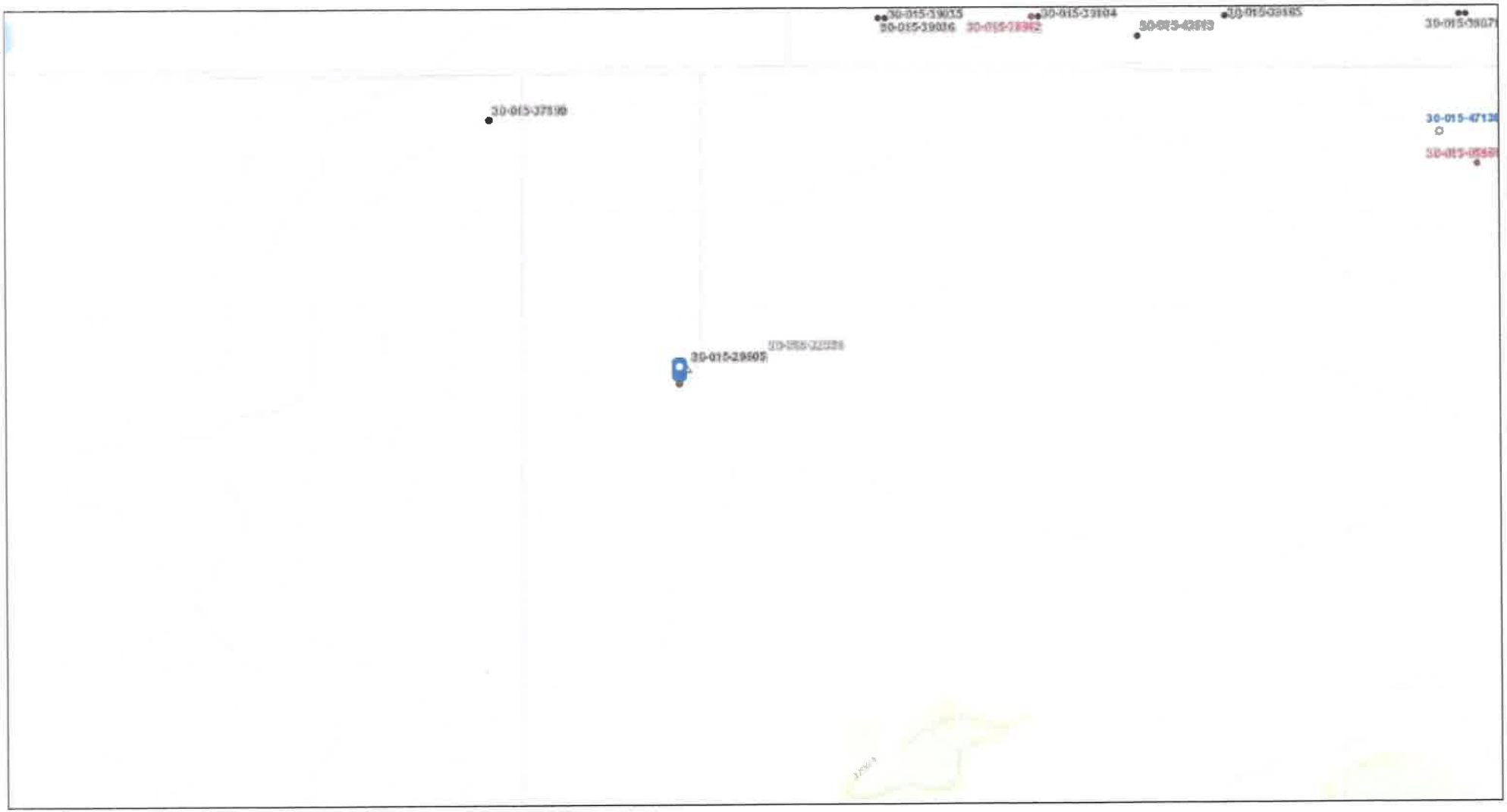
Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2023-04-26 - 3:54:42 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed.
2023-04-26 - 3:54:42 PM GMT

RECEIVED 27 2023 PM

Adobe Acrobat Sign

Devon, Ross Ranch 10 Fed 1 SWD



5/18/2021, 9:39:09 AM

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

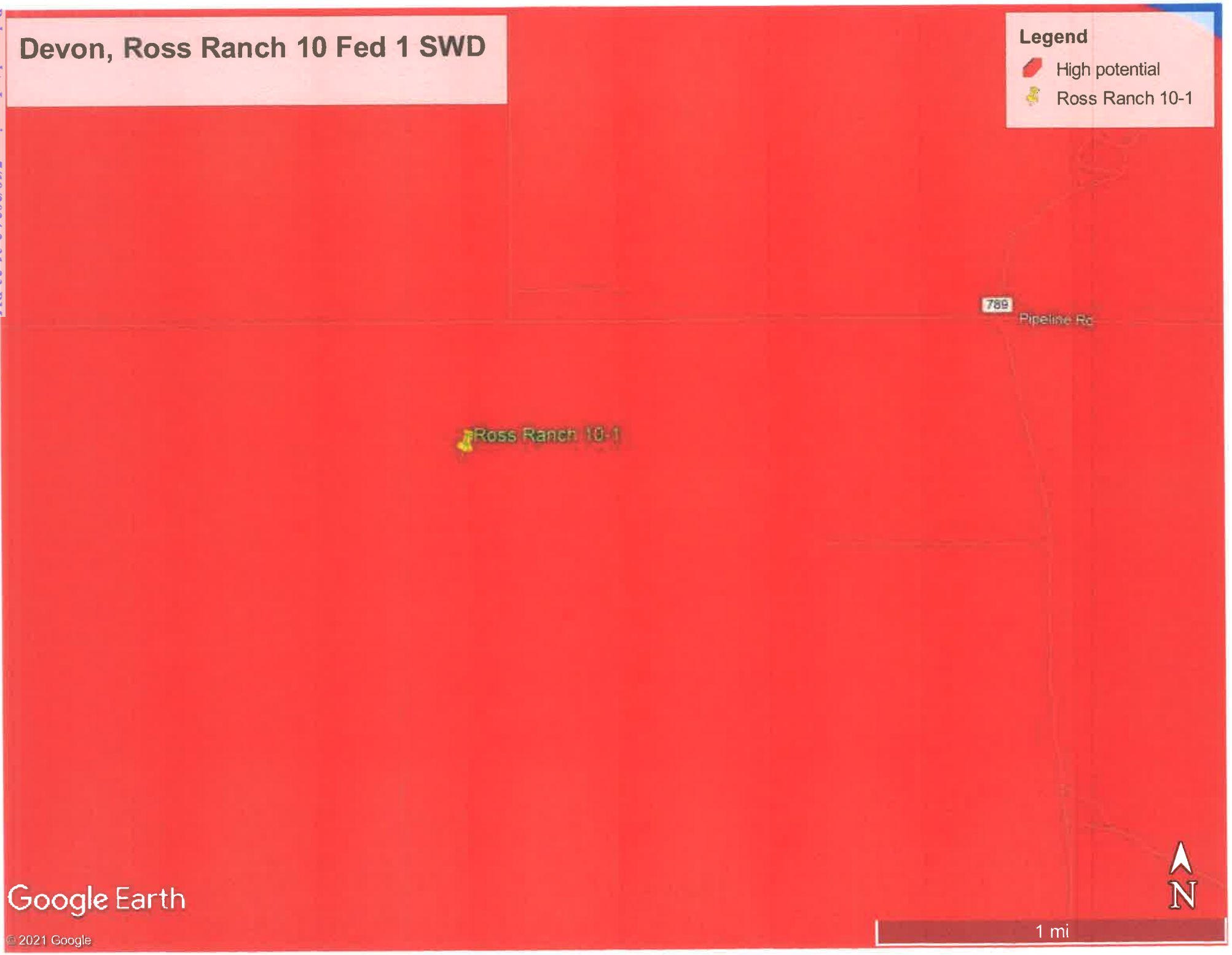
Wells - Large Scale

- undefined
- Miscellaneous
- CO2, Active
- CO2, Cancelled
- CO2, New
- CO2, Plugged
- CO2, Temporarily Abandoned
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- 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

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., OCD

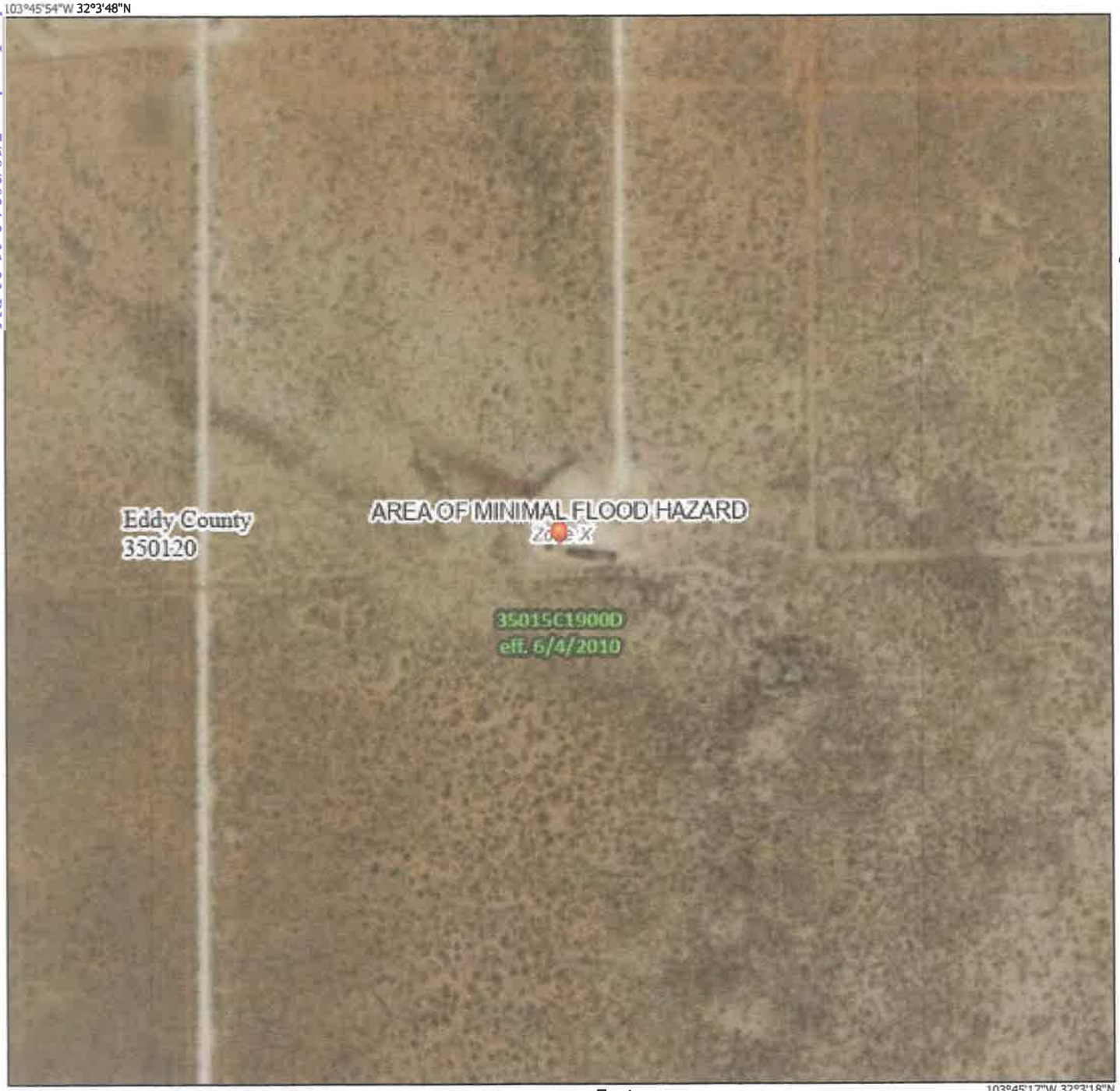
New Mexico Oil Conservation Division

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



National Flood Hazard Layer FIRMette

FEMA



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 5/18/2021 at 11:41 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.

DEVON ENERGY
ROSS RANCH 10 FEDERAL #1

Severed Tank 05-13-19

Interior of Containment 05-13-19

NW Corner of East side at completion 2019

06/19/24 CS11 inside lined containment

06/19/2024 CS10 inside lined containment

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 18, 2019

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

RE: Devon Ross Ranch 10 Fed 1 Tank Pad OrderNo.: 1906521

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 36 sample(s) on 6/11/2019 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-001 **Matrix:** SOIL

Client Sample ID: AH-1 Surface
Collection Date: 6/7/2019 10:15:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1200	60		mg/Kg	20	6/15/2019 7:21:39 PM	45600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/12/2019 7:43:59 PM	45506
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/12/2019 7:43:59 PM	45506
Surr: DNOP	104	70-130		%Rec	1	6/12/2019 7:43:59 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Surr: BFB	100	73.8-119		%Rec	1	6/12/2019 5:03:28 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/12/2019 5:03:28 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-002 **Matrix:** SOIL

Client Sample ID: AH-1 1ft
Collection Date: 6/7/2019 10:20:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	710	60		mg/Kg	20	6/15/2019 7:34:03 PM	45600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/12/2019 8:58:23 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 8:58:23 PM	45506
Surr: DNOP	93.0	70-130		%Rec	1	6/12/2019 8:58:23 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Surr: BFB	99.6	73.8-119		%Rec	1	6/12/2019 6:15:34 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/12/2019 6:15:34 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-003 **Matrix:** SOIL

Client Sample ID: AH-2 Surface
Collection Date: 6/7/2019 10:35:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1200	60		mg/Kg	20	6/15/2019 8:48:28 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	6/12/2019 9:22:54 PM	45506
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	6/12/2019 9:22:54 PM	45506
Surr: DNOP	108	70-130		%Rec	1	6/12/2019 9:22:54 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Surr: BFB	97.8	73.8-119		%Rec	1	6/12/2019 7:27:23 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/12/2019 7:27:23 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-004 **Matrix:** SOIL

Client Sample ID: AH-2 1ft
Collection Date: 6/7/2019 10:40:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	460	60		mg/Kg	20	6/15/2019 9:00:52 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/12/2019 9:47:38 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 9:47:38 PM	45506
Surr: DNOP	89.9	70-130		%Rec	1	6/12/2019 9:47:38 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Surr: BFB	101	73.8-119		%Rec	1	6/12/2019 7:51:08 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/12/2019 7:51:08 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-005 **Matrix:** SOIL

Client Sample ID: AH-3 Surface
Collection Date: 6/7/2019 10:55:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	170	60		mg/Kg	20	6/15/2019 9:13:16 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	11	10		mg/Kg	1	6/12/2019 10:12:21 PM	45506
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/12/2019 10:12:21 PM	45506
Surr: DNOP	134	70-130	S	%Rec	1	6/12/2019 10:12:21 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Surr: BFB	96.4	73.8-119		%Rec	1	6/12/2019 8:14:49 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	6/12/2019 8:14:49 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-006 **Matrix:** SOIL

Client Sample ID: AH-3 1ft
Collection Date: 6/7/2019 11:10:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	160	60		mg/Kg	20	6/15/2019 9:25:41 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	6/12/2019 10:37:12 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 10:37:12 PM	45506
Surr: DNOP	86.8	70-130		%Rec	1	6/12/2019 10:37:12 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Surr: BFB	97.4	73.8-119		%Rec	1	6/12/2019 8:38:31 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Xylenes, Total	ND	0.096		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	6/12/2019 8:38:31 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-007 **Matrix:** SOIL

Client Sample ID: AH-4 Surface
Collection Date: 6/7/2019 11:15:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4300	150		mg/Kg	50	6/17/2019 4:46:53 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/13/2019 9:29:08 AM	45506
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2019 9:29:08 AM	45506
Surr: DNOP	95.2	70-130		%Rec	1	6/13/2019 9:29:08 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Surr: BFB	96.1	73.8-119		%Rec	1	6/12/2019 9:02:09 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	6/12/2019 9:02:09 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-008 **Matrix:** SOIL

Client Sample ID: AH-4 1ft
Collection Date: 6/7/2019 11:25:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	130	60		mg/Kg	20	6/15/2019 9:50:30 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/13/2019 9:53:06 AM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2019 9:53:06 AM	45506
Surr: DNOP	81.0	70-130		%Rec	1	6/13/2019 9:53:06 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Surr: BFB	95.5	73.8-119		%Rec	1	6/12/2019 9:25:46 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	6/12/2019 9:25:46 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-009 **Matrix:** SOIL

Client Sample ID: AH-5 Surface
Collection Date: 6/7/2019 11:30:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2200	59		mg/Kg	20	6/15/2019 10:27:42 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	3100	100		mg/Kg	10	6/14/2019 9:54:13 AM	45506
Motor Oil Range Organics (MRO)	2700	500		mg/Kg	10	6/14/2019 9:54:13 AM	45506
Surr: DNOP	0	70-130	S	%Rec	10	6/14/2019 9:54:13 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Surr: BFB	113	73.8-119		%Rec	1	6/12/2019 9:49:23 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Xylenes, Total	ND	0.096		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	6/12/2019 9:49:23 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-010 **Matrix:** SOIL

Client Sample ID: AH-5 1ft
Collection Date: 6/7/2019 11:45:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	61		mg/Kg	20	6/15/2019 11:04:56 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	25	9.2		mg/Kg	1	6/14/2019 8:41:57 AM	45506
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/14/2019 8:41:57 AM	45506
Surr: DNOP	77.2	70-130		%Rec	1	6/14/2019 8:41:57 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Surr: BFB	95.7	73.8-119		%Rec	1	6/12/2019 10:13:28 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	6/12/2019 10:13:28 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-011 **Matrix:** SOIL

Client Sample ID: AH-6 Surface
Collection Date: 6/7/2019 11:50:00 AM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2800	150		mg/Kg	50	6/17/2019 4:59:18 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	2400	95		mg/Kg	10	6/14/2019 11:07:25 AM	45506
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	6/14/2019 11:07:25 AM	45506
Surr: DNOP	0	70-130	S	%Rec	10	6/14/2019 11:07:25 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Surr: BFB	108	73.8-119		%Rec	1	6/12/2019 11:02:17 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/12/2019 11:02:17 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-012 **Matrix:** SOIL

Client Sample ID: AH-6 1ft
Collection Date: 6/7/2019 12:10:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	99	61		mg/Kg	20	6/15/2019 11:29:44 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/14/2019 9:05:55 AM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/14/2019 9:05:55 AM	45506
Surr: DNOP	103	70-130		%Rec	1	6/14/2019 9:05:55 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Surr: BFB	110	73.8-119		%Rec	1	6/12/2019 11:26:53 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	6/12/2019 11:26:53 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-013 **Matrix:** SOIL

Client Sample ID: AII-7 Surface
Collection Date: 6/7/2019 12:15:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1300	59		mg/Kg	20	6/15/2019 11:42:09 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	15	9.6		mg/Kg	1	6/13/2019 12:41:40 PM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 12:41:40 PM	45506
Surr: DNOP	96.1	70-130		%Rec	1	6/13/2019 12:41:40 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Surr: BFB	120	73.8-119	S	%Rec	1	6/12/2019 11:51:32 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	1	6/12/2019 11:51:32 PM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-014 **Matrix:** SOIL

Client Sample ID: AH-7 1ft
Collection Date: 6/7/2019 12:25:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	5100	300		mg/Kg	100	6/17/2019 5:11:43 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	80	10		mg/Kg	1	6/13/2019 1:05:49 PM	45506
Motor Oil Range Organics (MRO)	72	50		mg/Kg	1	6/13/2019 1:05:49 PM	45506
Surr: DNOP	104	70-130		%Rec	1	6/13/2019 1:05:49 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 12:16:05 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/13/2019 12:16:05 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-015 **Matrix:** SOIL

Client Sample ID: AH-8 Surface
Collection Date: 6/7/2019 12:30:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4700	150		mg/Kg	50	6/17/2019 5:48:57 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	110	9.6		mg/Kg	1	6/13/2019 1:29:58 PM	45506
Motor Oil Range Organics (MRO)	92	48		mg/Kg	1	6/13/2019 1:29:58 PM	45506
Surr: DNOP	105	70-130		%Rec	1	6/13/2019 1:29:58 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Surr: BFB	106	73.8-119		%Rec	1	6/13/2019 12:40:43 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/13/2019 12:40:43 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-016 **Matrix:** SOIL

Client Sample ID: AH-8 1ft
Collection Date: 6/7/2019 12:45:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	6100	300		mg/Kg	100	6/17/2019 6:01:21 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	77	9.9		mg/Kg	1	6/13/2019 1:54:11 PM	45506
Motor Oil Range Organics (MRO)	70	49		mg/Kg	1	6/13/2019 1:54:11 PM	45506
Surr: DNOP	109	70-130		%Rec	1	6/13/2019 1:54:11 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 1:05:20 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/13/2019 1:05:20 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-017 **Matrix:** SOIL

Client Sample ID: AH-9 Surface
Collection Date: 6/7/2019 12:50:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2300	61		mg/Kg	20	6/16/2019 12:31:48 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	160	9.3		mg/Kg	1	6/13/2019 2:18:25 PM	45506
Motor Oil Range Organics (MRO)	170	47		mg/Kg	1	6/13/2019 2:18:25 PM	45506
Surr: DNOP	110	70-130		%Rec	1	6/13/2019 2:18:25 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Surr: BFB	104	73.8-119		%Rec	1	6/13/2019 1:29:56 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/13/2019 1:29:56 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-018 **Matrix:** SOIL

Client Sample ID: AH-9 1ft
Collection Date: 6/7/2019 1:10:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1000	60		mg/Kg	20	6/16/2019 12:44:13 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	22	9.9		mg/Kg	1	6/13/2019 2:42:41 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2019 2:42:41 PM	45506
Surr: DNOP	96.0	70-130		%Rec	1	6/13/2019 2:42:41 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Surr: BFB	108	73.8-119		%Rec	1	6/13/2019 1:54:34 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/13/2019 1:54:34 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-019 **Matrix:** SOIL

Client Sample ID: AH-10 Surface
Collection Date: 6/7/2019 1:15:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	700	60		mg/Kg	20	6/16/2019 12:56:38 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	940	9.5		mg/Kg	1	6/13/2019 3:07:00 PM	45506
Motor Oil Range Organics (MRO)	750	48		mg/Kg	1	6/13/2019 3:07:00 PM	45506
Surr: DNOP	137	70-130	S	%Rec	1	6/13/2019 3:07:00 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Surr: BFB	105	73.8-119		%Rec	1	6/13/2019 2:18:56 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/13/2019 2:18:56 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-020 **Matrix:** SOIL

Client Sample ID: AH-10 1ft
Collection Date: 6/7/2019 1:25:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1500	59		mg/Kg	20	6/16/2019 1:33:52 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	6/14/2019 9:29:59 AM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/14/2019 9:29:59 AM	45506
Surr: DNOP	102	70-130		%Rec	1	6/14/2019 9:29:59 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 2:43:27 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/13/2019 2:43:27 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-021 **Matrix:** SOIL

Client Sample ID: AH-11 Surface
Collection Date: 6/7/2019 1:30:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4700	150		mg/Kg	50	6/17/2019 6:13:45 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	56	9.8		mg/Kg	1	6/13/2019 3:22:22 PM	45543
Motor Oil Range Organics (MRO)	75	49		mg/Kg	1	6/13/2019 3:22:22 PM	45543
Surr: DNOP	118	70-130		%Rec	1	6/13/2019 3:22:22 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Surr: BFB	109	73.8-119		%Rec	1	6/12/2019 6:37:26 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/12/2019 6:37:26 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-022 **Matrix:** SOIL

Client Sample ID: AH-11 1ft
Collection Date: 6/7/2019 1:40:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	1500	60		mg/Kg	20	6/17/2019 1:03:34 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	6/13/2019 5:13:42 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:13:42 PM	45543
Surr: DNOP	107	70-130		%Rec	1	6/13/2019 5:13:42 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Surr: BFB	107	73.8-119		%Rec	1	6/12/2019 7:46:20 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	6/12/2019 7:46:20 PM	45509

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-023 **Matrix:** SOIL

Client Sample ID: AH-12 Surface
Collection Date: 6/7/2019 1:45:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2100	60		mg/Kg	20	6/17/2019 1:40:46 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2019 5:35:51 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:35:51 PM	45543
Surr: DNOP	110	70-130		%Rec	1	6/13/2019 5:35:51 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Surr: BFB	106	73.8-119		%Rec	1	6/12/2019 8:54:55 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	6/12/2019 8:54:55 PM	45509

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Lab ID: 1906521-024 **Matrix:** SOIL

Client Sample ID: AH-12 1ft
Collection Date: 6/7/2019 1:55:00 PM
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	1500	60		mg/Kg	20	6/17/2019 1:53:11 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	6/13/2019 5:58:17 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:58:17 PM	45543
Surr: DNOP	127	70-130		%Rec	1	6/13/2019 5:58:17 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Surr: BFB	107	73.8-119		%Rec	1	6/12/2019 9:17:44 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	6/12/2019 9:17:44 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **MB-45600** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **45600** RunNo: **60675**
Prep Date: **6/14/2019** Analysis Date: **6/15/2019** SeqNo: **2053098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45600** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **45600** RunNo: **60675**
Prep Date: **6/14/2019** Analysis Date: **6/15/2019** SeqNo: **2053099** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: **MB-45603** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **45603** RunNo: **60675**
Prep Date: **6/14/2019** Analysis Date: **6/15/2019** SeqNo: **2053138** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45603** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **45603** RunNo: **60675**
Prep Date: **6/14/2019** Analysis Date: **6/15/2019** SeqNo: **2053139** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: **MB-45618** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **45618** RunNo: **60701**
Prep Date: **6/17/2019** Analysis Date: **6/17/2019** SeqNo: **2054613** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45618** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **45618** RunNo: **60701**
Prep Date: **6/17/2019** Analysis Date: **6/17/2019** SeqNo: **2054614** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **1906521-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-1 Surface** Batch ID: **45506** RunNo: **60571**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050478** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	49.80	0	104	57	142			
Surr: DNOP	4.2		4.980		84.8	70	130			

Sample ID: **1906521-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-1 Surface** Batch ID: **45506** RunNo: **60571**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050479** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.8	49.12	0	88.5	57	142	17.2	20	
Surr: DNOP	3.4		4.912		70.1	70	130	0	0	

Sample ID: **LCS-45506** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **45506** RunNo: **60571**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	63.9	124			
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID: **MB-45506** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **45506** RunNo: **60571**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050488** 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		122	70	130			

Sample ID: **LCS-45543** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **45543** RunNo: **60622**
Prep Date: **6/12/2019** Analysis Date: **6/13/2019** SeqNo: **2052482** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	63.9	124			
Surr: DNOP	4.8		5.000		95.4	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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **MB-45543**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **45543**	RunNo: **60622**
Prep Date: **6/12/2019**	Analysis Date: **6/13/2019**	SeqNo: **2052483** 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			

Sample ID: **1906521-021AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-11 Surface**	Batch ID: **45543**	RunNo: **60622**
Prep Date: **6/12/2019**	Analysis Date: **6/13/2019**	SeqNo: **2052486** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.7	48.50	55.87	110	57	142			
Surr: DNOP	5.3		4.850		109	70	130			

Sample ID: **1906521-021AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-11 Surface**	Batch ID: **45543**	RunNo: **60622**
Prep Date: **6/12/2019**	Analysis Date: **6/13/2019**	SeqNo: **2052487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	90	9.3	46.38	55.87	74.0	57	142	19.0	20	
Surr: DNOP	4.8		4.638		103	70	130	0	0	

Sample ID: **MB-45572**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **45572**	RunNo: **60667**
Prep Date: **6/13/2019**	Analysis Date: **6/14/2019**	SeqNo: **2052663** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **MB-45503** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45503** RunNo: **60589**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050522** 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	73.8	119			

Sample ID: **LCS-45503** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45503** RunNo: **60589**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050523** 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	85.7	80.1	123			
Surr: BFB	1100		1000		108	73.8	119			

Sample ID: **1906521-001AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **AH-1 Surface** Batch ID: **45503** RunNo: **60589**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050525** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.58	0	100	69.1	142			
Surr: BFB	1100		983.3		116	73.8	119			

Sample ID: **1906521-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **AH-1 Surface** Batch ID: **45503** RunNo: **60589**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050526** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.08	0	96.3	69.1	142	6.27	20	
Surr: BFB	1100		963.4		116	73.8	119	0	0	

Sample ID: **MB-45518** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45518** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050617** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	73.8	119			

Sample ID: **LCS-45518** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45518** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050618** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		119	73.8	119			

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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **MB-45509** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050625** 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		111	73.8	119			

Sample ID: **LCS-45509** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	80.1	123			
Surr: BFB	1200		1000		119	73.8	119			

Sample ID: **1906521-021AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **AH-11 Surface** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.63	0	97.8	69.1	142			
Surr: BFB	1200		985.2		124	73.8	119			S

Sample ID: **1906521-021AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **AH-11 Surface** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.53	0	95.3	69.1	142	2.96	20	
Surr: BFB	1200		981.4		119	73.8	119	0	0	S

Sample ID: **MB-45528** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45528** RunNo: **60624**
Prep Date: **6/12/2019** Analysis Date: **6/13/2019** SeqNo: **2051781** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	73.8	119			

Sample ID: **LCS-45528** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45528** RunNo: **60624**
Prep Date: **6/12/2019** Analysis Date: **6/13/2019** SeqNo: **2051782** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		121	73.8	119			S

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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: MB-45503	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 45503	RunNo: 60589							
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050556	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		103	80	120			

Sample ID: LCS-45503	SampType: LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 45503	RunNo: 60589							
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050557	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.5	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 1906521-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID: AH-1 1ft	Batch ID: 45503	RunNo: 60589							
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050564	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	104	63.9	127			
Toluene	1.1	0.050	0.9921	0.01006	108	69.9	131			
Ethylbenzene	1.1	0.050	0.9921	0	111	71	132			
Xylenes, Total	3.3	0.099	2.976	0	112	71.8	131			
Surr: 4-Bromofluorobenzene	1.1		0.9921		106	80	120			

Sample ID: 1906521-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID: AH-1 1ft	Batch ID: 45503	RunNo: 60589							
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050572	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	63.9	127	2.74	20	
Toluene	1.0	0.049	0.9814	0.01006	106	69.9	131	3.40	20	
Ethylbenzene	1.1	0.049	0.9814	0	107	71	132	4.15	20	
Xylenes, Total	3.2	0.098	2.944	0	108	71.8	131	4.53	20	
Surr: 4-Bromofluorobenzene	1.0		0.9814		104	80	120	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 Quanitative 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#: 1906521

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: MB-45518	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 45518	RunNo: 60590						
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050664	Units: %Rec					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	80	120			

Sample ID: LCS-45518	SampType: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 45518	RunNo: 60590						
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050665	Units: %Rec					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: MB-45509	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 45509	RunNo: 60590						
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050673	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		103	80	120			

Sample ID: LCS-45509	SampType: LCS	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 45509	RunNo: 60590						
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050674	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	98.2	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: 1906521-022AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles						
Client ID: AH-11 1ft	Batch ID: 45509	RunNo: 60590						
Prep Date: 6/11/2019	Analysis Date: 6/12/2019	SeqNo: 2050679	Units: mg/Kg					

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9960	0	110	63.9	127			
Toluene	1.1	0.050	0.9960	0	111	69.9	131			
Ethylbenzene	1.1	0.050	0.9960	0	111	71	132			
Xylenes, Total	3.2	0.10	2.988	0	107	71.8	131			

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 Quanitative 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#: **1906521**

18-Jun-19

Client: Safety & Environmental Solutions

Project: Devon Ross Ranch 10 Fed 1 Tank Pad

Sample ID: **1906521-022AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AH-11 1ft** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050679** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		0.9960		110	80	120			

Sample ID: **1906521-022AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AH-11 1ft** Batch ID: **45509** RunNo: **60590**
Prep Date: **6/11/2019** Analysis Date: **6/12/2019** SeqNo: **2050680** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9950	0	107	63.9	127	2.36	20	
Toluene	1.1	0.050	0.9950	0	108	69.9	131	2.80	20	
Ethylbenzene	1.1	0.050	0.9950	0	107	71	132	3.59	20	
Xylenes, Total	3.1	0.10	2.985	0	103	71.8	131	3.34	20	
Surr: 4-Bromofluorobenzene	1.1		0.9950		111	80	120	0	0	

Sample ID: **MB-45528** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **45528** RunNo: **60624**
Prep Date: **6/12/2019** Analysis Date: **6/13/2019** SeqNo: **2051816** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: **LCS-45528** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **45528** RunNo: **60624**
Prep Date: **6/12/2019** Analysis Date: **6/13/2019** SeqNo: **2051817** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

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 Quanitative 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

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

Sample Log-In Check List

Client Name: **Safety Env Solutions** Work Order Number: **1906521** RcptNo: **1**

Received By: **Isaiah Ortiz** **6/11/2019** @0905 I-OK

Completed By: **Isaiah Ortiz** **6/11/2019 9:24:19 AM** I-OK

Reviewed By: TO 6/11/19

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° 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
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: JJC 6-11-19

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Mailing Address: 703 E. Clinton Hobbs NM 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: 5 Day Rush ☐ Standard ☐ Rush

Project Name: DWOP Ross Ranch #10 Fed 1 TANK PAD

Project #: DEV-19-010

Project Manager: Allen Bob

Sampler: Sean Jeffrey

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1 +0.2 (CF) 0.9 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906521	BTEX / 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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
06-07	1015	S	AH-1 Surface	1	Tel	-001	X	X									X
	1020	S	AH-1 1FT	1	Next	-002											
	1035	S	AH-2 Surface	1		-003											
	1040	S	AH-2 1FT	1		-004											
	1055	S	AH-3 Surface	1		-005											
	1110	S	AH-3 1FT	1		-006											
	1115	S	AH-4 Surface	1		-007											
	1125	S	AH-4 1FT	1		-008											
	1130	S	AH-5 Surface	1		-009											
	1145	S	AH-5-1FT	1		-010											
	1150	S	AH-6 Surface	1		-011											
06/07	1210	S	AH-6 1FT	1		-012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
06/10	0800	Sean Jeffrey			6/10/19	0802
6/10/19	1900			Courier	6/11/19	0905

Remarks:

If necessary, samples submitted to Hall 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.

Chain-of-Custody Record

Client: Safety & Environmental Solution

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)

Turn-Around Time:
5 Day Rush
☐ Standard ☐ Rush

Project Name: Devon Ross Ranch 10 Fed 1 Tank Pad

Project #: DEV-19-010

Project Manager: Allen Bob

Sampler: Son Jung

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1 +0.2 (CF) 0.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906521	BTEX / 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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent) Chloride
06/07	1215	S	AH-7 Surface	1	Ice	-013	X	X								X
	1225	S	AH-7 1 Ft	1	Next	-014										
	1230	S	AH-8 Surface	1		-015										
	1245	S	AH-8 1 Ft	1		-016										
	1250	S	AH-9 Surface	1		-017										
	1310	S	AH-9 1 Ft	1		-018										
	1315	S	AH-10 Surface	1		-019										
	1325	S	AH-10 1 Ft	1		-020										
	1330	S	AH-11 Surface	1		-021										
	1340	S	AH-11 1 Ft	1		-022										
	1345	S	AH-12 Surface	1		-023										
06/07	1355	S	AH-12 1 Ft	1		-024	X	X								X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/10	0800	Son Jung			6/10/19	0800
6/10/19	1900			courier	6/11/19	0900

Remarks:

If necessary, samples submitted to Hall 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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 20, 2023

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

RE: Ross Ranch DEV 19 008 OrderNo.: 2309525

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 12 sample(s) on 9/12/2023 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-001 **Matrix:** SOIL

Client Sample ID: SP1-Surface
Collection Date: 9/7/2023 2:15:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/15/2023 8:06:21 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	160	9.9		mg/Kg	1	9/18/2023 12:19:16 PM	77535
Motor Oil Range Organics (MRO)	220	50		mg/Kg	1	9/18/2023 12:19:16 PM	77535
Surr: DNOP	102	69-147		%Rec	1	9/18/2023 12:19:16 PM	77535
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/15/2023 12:46:00 AM	77482
Surr: BFB	94.5	15-244		%Rec	1	9/15/2023 12:46:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.025		mg/Kg	1	9/15/2023 12:46:00 AM	77482
Toluene	ND	0.050		mg/Kg	1	9/15/2023 12:46:00 AM	77482
Ethylbenzene	ND	0.050		mg/Kg	1	9/15/2023 12:46:00 AM	77482
Xylenes, Total	ND	0.10		mg/Kg	1	9/15/2023 12:46:00 AM	77482
Surr: 4-Bromofluorobenzene	86.8	39.1-146		%Rec	1	9/15/2023 12:46:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-002 **Matrix:** SOIL

Client Sample ID: SP1-1ft
Collection Date: 9/7/2023 2:20:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/15/2023 8:18:45 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	9/14/2023 11:57:15 AM	77491
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	9/14/2023 11:57:15 AM	77491
Surr: DNOP	98.4	69-147		%Rec	1	9/14/2023 11:57:15 AM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2023 1:52:00 AM	77482
Surr: BFB	103	15-244		%Rec	1	9/15/2023 1:52:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.025		mg/Kg	1	9/15/2023 1:52:00 AM	77482
Toluene	ND	0.049		mg/Kg	1	9/15/2023 1:52:00 AM	77482
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2023 1:52:00 AM	77482
Xylenes, Total	ND	0.099		mg/Kg	1	9/15/2023 1:52:00 AM	77482
Surr: 4-Bromofluorobenzene	92.5	39.1-146		%Rec	1	9/15/2023 1:52:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-003 **Matrix:** SOIL

Client Sample ID: SP1-2ft
Collection Date: 9/7/2023 2:45:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/15/2023 8:56:00 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/14/2023 12:18:28 PM	77491
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/14/2023 12:18:28 PM	77491
Surr: DNOP	128	69-147		%Rec	1	9/14/2023 12:18:28 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/15/2023 2:57:00 AM	77482
Surr: BFB	102	15-244		%Rec	1	9/15/2023 2:57:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.024		mg/Kg	1	9/15/2023 2:57:00 AM	77482
Toluene	ND	0.047		mg/Kg	1	9/15/2023 2:57:00 AM	77482
Ethylbenzene	ND	0.047		mg/Kg	1	9/15/2023 2:57:00 AM	77482
Xylenes, Total	ND	0.095		mg/Kg	1	9/15/2023 2:57:00 AM	77482
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	9/15/2023 2:57:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-004 **Matrix:** SOIL

Client Sample ID: SP2-Surface
Collection Date: 9/7/2023 1:30:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: **JTT**
Chloride	230	60		mg/Kg	20	9/15/2023 9:33:14 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **PRD**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/14/2023 12:29:03 PM	77491
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/14/2023 12:29:03 PM	77491
Surr: DNOP	123	69-147		%Rec	1	9/14/2023 12:29:03 PM	77491
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2023 3:19:00 AM	77482
Surr: BFB	101	15-244		%Rec	1	9/15/2023 3:19:00 AM	77482
EPA METHOD 8021B: VOLATILES							Analyst: **KMN**
Benzene	ND	0.025		mg/Kg	1	9/15/2023 3:19:00 AM	77482
Toluene	ND	0.049		mg/Kg	1	9/15/2023 3:19:00 AM	77482
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2023 3:19:00 AM	77482
Xylenes, Total	ND	0.098		mg/Kg	1	9/15/2023 3:19:00 AM	77482
Surr: 4-Bromofluorobenzene	87.5	39.1-146		%Rec	1	9/15/2023 3:19:00 AM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-005 **Matrix:** SOIL

Client Sample ID: SP2-1ft
Collection Date: 9/7/2023 1:45:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/15/2023 10:10:27 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	9/14/2023 12:39:40 PM	77491
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	9/14/2023 12:39:40 PM	77491
Surr: DNOP	141	69-147		%Rec	1	9/14/2023 12:39:40 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2023 3:40:00 AM	77482
Surr: BFB	99.2	15-244		%Rec	1	9/15/2023 3:40:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.024		mg/Kg	1	9/15/2023 3:40:00 AM	77482
Toluene	ND	0.048		mg/Kg	1	9/15/2023 3:40:00 AM	77482
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2023 3:40:00 AM	77482
Xylenes, Total	ND	0.096		mg/Kg	1	9/15/2023 3:40:00 AM	77482
Surr: 4-Bromofluorobenzene	88.8	39.1-146		%Rec	1	9/15/2023 3:40:00 AM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-006 **Matrix:** SOIL

Client Sample ID: SP2-2ft
Collection Date: 9/7/2023 1:55:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: **JTT**
Chloride	74	60		mg/Kg	20	9/15/2023 10:22:51 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **PRD**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/14/2023 12:50:15 PM	77491
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/14/2023 12:50:15 PM	77491
Surr: DNOP	122	69-147		%Rec	1	9/14/2023 12:50:15 PM	77491
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **KMN**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/15/2023 4:02:00 AM	77482
Surr: BFB	103	15-244		%Rec	1	9/15/2023 4:02:00 AM	77482
EPA METHOD 8021B: VOLATILES							Analyst: **KMN**
Benzene	ND	0.023		mg/Kg	1	9/15/2023 4:02:00 AM	77482
Toluene	ND	0.046		mg/Kg	1	9/15/2023 4:02:00 AM	77482
Ethylbenzene	ND	0.046		mg/Kg	1	9/15/2023 4:02:00 AM	77482
Xylenes, Total	ND	0.093		mg/Kg	1	9/15/2023 4:02:00 AM	77482
Surr: 4-Bromofluorobenzene	91.7	39.1-146		%Rec	1	9/15/2023 4:02:00 AM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-007 **Matrix:** SOIL

Client Sample ID: SP3-Surface
Collection Date: 9/6/2023 1:40:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	1100	60		mg/Kg	20	9/15/2023 10:35:16 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	26	9.7		mg/Kg	1	9/18/2023 12:30:03 PM	77535
Motor Oil Range Organics (MRO)	71	49		mg/Kg	1	9/18/2023 12:30:03 PM	77535
Surr: DNOP	95.1	69-147		%Rec	1	9/18/2023 12:30:03 PM	77535
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2023 4:24:00 AM	77482
Surr: BFB	98.9	15-244		%Rec	1	9/15/2023 4:24:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.024		mg/Kg	1	9/15/2023 4:24:00 AM	77482
Toluene	ND	0.048		mg/Kg	1	9/15/2023 4:24:00 AM	77482
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2023 4:24:00 AM	77482
Xylenes, Total	ND	0.096		mg/Kg	1	9/15/2023 4:24:00 AM	77482
Surr: 4-Bromofluorobenzene	88.2	39.1-146		%Rec	1	9/15/2023 4:24:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-008 **Matrix:** SOIL

Client Sample ID: SP3-1ft
Collection Date: 9/6/2023 1:49:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	320	60		mg/Kg	20	9/15/2023 10:47:40 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/14/2023 1:11:28 PM	77491
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/14/2023 1:11:28 PM	77491
Surr: DNOP	118	69-147		%Rec	1	9/14/2023 1:11:28 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2023 4:46:00 AM	77482
Surr: BFB	101	15-244		%Rec	1	9/15/2023 4:46:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.024		mg/Kg	1	9/15/2023 4:46:00 AM	77482
Toluene	ND	0.048		mg/Kg	1	9/15/2023 4:46:00 AM	77482
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2023 4:46:00 AM	77482
Xylenes, Total	ND	0.096		mg/Kg	1	9/15/2023 4:46:00 AM	77482
Surr: 4-Bromofluorobenzene	91.3	39.1-146		%Rec	1	9/15/2023 4:46:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-009 **Matrix:** SOIL

Client Sample ID: SP3-2ft
Collection Date: 9/6/2023 2:00:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	520	60		mg/Kg	20	9/15/2023 11:00:04 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/14/2023 1:22:07 PM	77491
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/14/2023 1:22:07 PM	77491
Surr: DNOP	102	69-147		%Rec	1	9/14/2023 1:22:07 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2023 5:07:00 AM	77482
Surr: BFB	101	15-244		%Rec	1	9/15/2023 5:07:00 AM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.024		mg/Kg	1	9/15/2023 5:07:00 AM	77482
Toluene	ND	0.048		mg/Kg	1	9/15/2023 5:07:00 AM	77482
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2023 5:07:00 AM	77482
Xylenes, Total	ND	0.097		mg/Kg	1	9/15/2023 5:07:00 AM	77482
Surr: 4-Bromofluorobenzene	90.7	39.1-146		%Rec	1	9/15/2023 5:07:00 AM	77482

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

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-010 **Matrix:** SOIL

Client Sample ID: SP4-Surface
Collection Date: 9/6/2023 1:00:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	190	60		mg/Kg	20	9/15/2023 11:12:29 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	14	9.6		mg/Kg	1	9/18/2023 1:02:20 PM	77535
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	9/18/2023 1:02:20 PM	77535
Surr: DNOP	93.7	69-147		%Rec	1	9/18/2023 1:02:20 PM	77535
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2023 1:58:00 PM	77482
Surr: BFB	110	15-244		%Rec	1	9/15/2023 1:58:00 PM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.025		mg/Kg	1	9/15/2023 1:58:00 PM	77482
Toluene	ND	0.049		mg/Kg	1	9/15/2023 1:58:00 PM	77482
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2023 1:58:00 PM	77482
Xylenes, Total	ND	0.099		mg/Kg	1	9/15/2023 1:58:00 PM	77482
Surr: 4-Bromofluorobenzene	95.1	39.1-146		%Rec	1	9/15/2023 1:58:00 PM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-011 **Matrix:** SOIL

Client Sample ID: SP4-1ft
Collection Date: 9/6/2023 1:15:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	9/15/2023 11:24:54 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/14/2023 1:54:01 PM	77491
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/14/2023 1:54:01 PM	77491
Surr: DNOP	157	69-147	S	%Rec	1	9/14/2023 1:54:01 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2023 2:19:00 PM	77482
Surr: BFB	101	15-244		%Rec	1	9/15/2023 2:19:00 PM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.025		mg/Kg	1	9/15/2023 2:19:00 PM	77482
Toluene	ND	0.049		mg/Kg	1	9/15/2023 2:19:00 PM	77482
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2023 2:19:00 PM	77482
Xylenes, Total	ND	0.098		mg/Kg	1	9/15/2023 2:19:00 PM	77482
Surr: 4-Bromofluorobenzene	88.9	39.1-146		%Rec	1	9/15/2023 2:19:00 PM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2309525**
Date Reported: **9/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Project: Ross Ranch DEV 19 008
Lab ID: 2309525-012 **Matrix:** SOIL

Client Sample ID: SP4-2ft
Collection Date: 9/6/2023 1:30:00 PM
Received Date: 9/12/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	120	60		mg/Kg	20	9/15/2023 11:37:18 PM	77551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	9/14/2023 2:04:41 PM	77491
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	9/14/2023 2:04:41 PM	77491
Surr: DNOP	168	69-147	S	%Rec	1	9/14/2023 2:04:41 PM	77491
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/15/2023 2:41:00 PM	77482
Surr: BFB	96.1	15-244		%Rec	1	9/15/2023 2:41:00 PM	77482
EPA METHOD 8021B: VOLATILES						Analyst: **KMN**	
Benzene	ND	0.023		mg/Kg	1	9/15/2023 2:41:00 PM	77482
Toluene	ND	0.047		mg/Kg	1	9/15/2023 2:41:00 PM	77482
Ethylbenzene	ND	0.047		mg/Kg	1	9/15/2023 2:41:00 PM	77482
Xylenes, Total	ND	0.094		mg/Kg	1	9/15/2023 2:41:00 PM	77482
Surr: 4-Bromofluorobenzene	86.5	39.1-146		%Rec	1	9/15/2023 2:41:00 PM	77482

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	Above Quantitation Range/Estimated Value
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309525**

20-Sep-23

Client: Safety & Environmental Solutions

Project: Ross Ranch DEV 19 008

Sample ID: **MB-77551**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **77551**	RunNo: **99735**							
Prep Date: **9/15/2023**	Analysis Date: **9/15/2023**	SeqNo: **3645363**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-77551**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **77551**	RunNo: **99735**							
Prep Date: **9/15/2023**	Analysis Date: **9/15/2023**	SeqNo: **3645364**	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			

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309525**

20-Sep-23

Client: Safety & Environmental Solutions

Project: Ross Ranch DEV 19 008

Sample ID: **LCS-77491**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **77491**	RunNo: **99723**							
Prep Date: **9/13/2023**	Analysis Date: **9/14/2023**	SeqNo: **3644695**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	131	61.9	130			S
Surr: DNOP	6.7		5.000		133	69	147			

Sample ID: **MB-77491**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **77491**	RunNo: **99723**							
Prep Date: **9/13/2023**	Analysis Date: **9/14/2023**	SeqNo: **3644696**	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	14		10.00		140	69	147			

Sample ID: **2309525-007AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **SP3-Surface**	Batch ID: **77535**	RunNo: **99781**							
Prep Date: **9/15/2023**	Analysis Date: **9/18/2023**	SeqNo: **3647211**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	9.5	47.66	27.91	67.4	54.2	135			
Surr: DNOP	4.3		4.766		90.1	69	147			

Sample ID: **2309525-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **SP3-Surface**	Batch ID: **77535**	RunNo: **99781**							
Prep Date: **9/15/2023**	Analysis Date: **9/18/2023**	SeqNo: **3647213**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	9.3	46.34	27.91	72.2	54.2	135	2.18	29.2	
Surr: DNOP	4.6		4.634		99.6	69	147	0	0	

Sample ID: **LCS-77535**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **77535**	RunNo: **99781**							
Prep Date: **9/15/2023**	Analysis Date: **9/18/2023**	SeqNo: **3647267**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.7	61.9	130			
Surr: DNOP	4.5		5.000		90.3	69	147			

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309525**

20-Sep-23

Client: Safety & Environmental Solutions

Project: Ross Ranch DEV 19 008

Sample ID: **MB-77535**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**	
Client ID: **PBS**	Batch ID: **77535**	RunNo: **99781**	
Prep Date: **9/15/2023**	Analysis Date: **9/18/2023**	SeqNo: **3647271**	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	9.2		10.00		92.0	69	147			

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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309525**

20-Sep-23

Client: Safcty & Environmental Solutions

Project: Ross Ranch DEV 19 008

Sample ID: **lcs-77482**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **77482**	RunNo: **99696**							
Prep Date: **9/13/2023**	Analysis Date: **9/14/2023**	SeqNo: **3643762**	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	88.0	70	130			
Surr: BFB	2200		1000		221	15	244			

Sample ID: **mb-77482**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **77482**	RunNo: **99696**							
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643763**	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	970		1000		97.3	15	244			

Sample ID: **2309525-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SP1-Surface**	Batch ID: **77482**	RunNo: **99696**							
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643765**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.83	0	99.8	70	130			
Surr: BFB	2200		993.0		220	15	244			

Sample ID: **2309525-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SP1-Surface**	Batch ID: **77482**	RunNo: **99696**							
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643766**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.90	0	92.8	70	130	6.97	20	
Surr: BFB	2100		996.0		215	15	244	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2309525**

20-Sep-23

Client: Safety & Environmental Solutions

Project: Ross Ranch DEV 19 008

Sample ID: **lcs-77482**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **77482**	RunNo: **99696**
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643842** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.89	0.050	1.000	0	89.3	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.8	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.3	70	130			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	39.1	146			

Sample ID: **mb-77482**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **77482**	RunNo: **99696**
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643843** 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	0.87		1.000		87.3	39.1	146			

Sample ID: **2309525-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SP1-1ft**	Batch ID: **77482**	RunNo: **99696**
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643846** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9852	0	91.5	70	130			
Toluene	0.90	0.049	0.9852	0	91.7	70	130			
Ethylbenzene	0.93	0.049	0.9852	0	93.9	70	130			
Xylenes, Total	2.8	0.099	2.956	0	94.1	70	130			
Surr: 4-Bromofluorobenzene	0.91		0.9852		92.9	39.1	146			

Sample ID: **2309525-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SP1-1ft**	Batch ID: **77482**	RunNo: **99696**
Prep Date: **9/13/2023**	Analysis Date: **9/15/2023**	SeqNo: **3643847** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9901	0	92.1	70	130	1.16	20	
Toluene	0.92	0.050	0.9901	0	92.4	70	130	1.28	20	
Ethylbenzene	0.94	0.050	0.9901	0	95.2	70	130	1.79	20	
Xylenes, Total	2.8	0.099	2.970	0	95.1	70	130	1.59	20	
Surr: 4-Bromofluorobenzene	0.92		0.9901		92.8	39.1	146	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 Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Safety & Environmental Solutions | Work Order Number: 2309525 | RcptNo: 1

Received By: Tracy Casarrubias 9/12/2023 7:15:00 AM

Completed By: Tracy Casarrubias 9/12/2023 8:31:14 AM

Reviewed By: 7na|12|23

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° 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 ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
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 ☐	Adjusted?
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 ☐	Checked by: SCM 9/12/23

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Safety & Environmental Solutions Inc

Mailing Address: 703 Clinton

Hobbs, NM 88240

Phone #: 575 397 0510

email or Fax#: rmartinez@sesi-nm.com

QA/QC Package: ballen@sesi-nm.com hablet@sesi-nm.com

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name: Ross Ranch DEV-19-008

Project #: Ross Ranch ~~nAB 1911504001~~ (2RP-5457)

Project Manager: Bob Allen

Sampler: Roberto Martinez

On Ice: ☒ Yes ☐ No 4091

# of Coolers: 1

Cooler Temp(including CF): 2.1-0=2.1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2309525	BTEX / 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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/5/23	1415	S	SP1-surface	4oz Jar 1	Ice	001	X	X					X			
9/7/23	1420	S	SP1-1ft	4oz Jar 1	Ice	002	X	X					X			
9/7/23	1425	S	SP1-2ft	4oz Jar 1	Ice	003	X	X					X			
9/7/23	1330	S	SP2-surface	4oz Jar 1	Ice	004	X	X					X			
9/7/23	1345	S	SP2-1ft	4oz Jar 1	Ice	005	X	X					X			
9/7/23	1355	S	SP2-2ft	4oz Jar 1	Ice	006	X	X					X			
9/6/23	1340	S	SP3-surface	4oz Jar 1	Ice	007	X	X					X			
9/6/23	1349	S	SP3-1ft	4oz Jar 1	Ice	008	X	X					X			
9/6/23	1400	S	SP3-2ft	4oz Jar 1	Ice	009	X	X					X			
9/6/23	1300	S	SP4-surface	4oz Jar 1	Ice	010	X	X					X			
9/6/23	1315	S	SP4-1ft	4oz Jar 1	Ice	011	X	X					X			
9/6/23	1330	S	SP4-2ft	4oz Jar 1	Ice	012	X	X					X			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
9/8/23	0700	Roberto Martinez	GCumming		9/8/23	0830
9/8/23	0900	GCumming			9/10/23	7:15

Remarks: Bill direct to Devon

If necessary, samples submitted to Hall 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.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Bob Allen
Safety & Environmental Solutions
PO BOX 1613
Hobbs, New Mexico 88241
Generated 7/9/2024 12:03:49 PM

JOB DESCRIPTION

Ross Ranch 10 Fed 1

JOB NUMBER

885-6687-1

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

Generated
7/9/2024 12:03:49 PM

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

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Laboratory Job ID: 885-6687-1

Table of Contents

Definitions/Glossary

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Job ID: 885-6687-1 Eurofins Albuquerque

Job Narrative
885-6687-1

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 6/21/2024 9:00 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 20.4°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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS5-Surface

Date Collected: 06/19/24 09:30
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-1

Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 02:53	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*06/21/24 13:46*	*06/28/24 02:53*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 02:53	1
Ethylbenzene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 02:53	1
Toluene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 02:53	1
Xylenes, Total	ND		0.096	mg/Kg		06/21/24 13:46	06/28/24 02:53	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*48 - 145*	*06/21/24 13:46*	*06/28/24 02:53*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 01:52	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		06/25/24 09:30	06/26/24 01:52	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*06/25/24 09:30*	*06/26/24 01:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		60	mg/Kg		06/25/24 11:07	06/25/24 17:57	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS5-1ft

Date Collected: 06/19/24 09:45
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-2

Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 03:37	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*06/21/24 13:46*	*06/28/24 03:37*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 03:37	1
Ethylbenzene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 03:37	1
Toluene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 03:37	1
Xylenes, Total	ND		0.095	mg/Kg		06/21/24 13:46	06/28/24 03:37	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*06/21/24 13:46*	*06/28/24 03:37*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 02:05	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/24 09:30	06/26/24 02:05	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*06/25/24 09:30*	*06/26/24 02:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60	mg/Kg		06/25/24 11:07	06/25/24 18:10	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS6-Surface

Date Collected: 06/19/24 10:37
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-3
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 03:58	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166	06/21/24 13:46	06/28/24 03:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 03:58	1
Ethylbenzene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 03:58	1
Toluene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 03:58	1
Xylenes, Total	ND		0.096	mg/Kg		06/21/24 13:46	06/28/24 03:58	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		48 - 145	06/21/24 13:46	06/28/24 03:58	1

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 02:18	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 02:18	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134	06/25/24 09:30	06/26/24 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		60	mg/Kg		06/25/24 11:07	06/25/24 18:47	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS6-1ft
Date Collected: 06/19/24 11:06
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-4
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 04:20	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*35 - 166*	*06/21/24 13:46*	*06/28/24 04:20*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 04:20	1
Ethylbenzene	ND		0.047	mg/Kg		06/21/24 13:46	06/28/24 04:20	1
Toluene	ND		0.047	mg/Kg		06/21/24 13:46	06/28/24 04:20	1
Xylenes, Total	ND		0.095	mg/Kg		06/21/24 13:46	06/28/24 04:20	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*06/21/24 13:46*	*06/28/24 04:20*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 02:30	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 02:30	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*06/25/24 09:30*	*06/26/24 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60	mg/Kg		06/25/24 11:07	06/25/24 18:59	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS7-Surface

Date Collected: 06/19/24 10:59
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-5
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 04:42	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*35 - 166*	*06/21/24 13:46*	*06/28/24 04:42*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 04:42	1
Ethylbenzene	ND		0.047	mg/Kg		06/21/24 13:46	06/28/24 04:42	1
Toluene	ND		0.047	mg/Kg		06/21/24 13:46	06/28/24 04:42	1
Xylenes, Total	ND		0.094	mg/Kg		06/21/24 13:46	06/28/24 04:42	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*06/21/24 13:46*	*06/28/24 04:42*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/24 09:30	06/26/24 02:43	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/24 09:30	06/26/24 02:43	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*103*		*62 - 134*	*06/25/24 09:30*	*06/26/24 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		60	mg/Kg		06/25/24 11:07	06/25/24 19:11	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS7-1ft
Date Collected: 06/19/24 11:15
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-6
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 05:04	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*06/21/24 13:46*	*06/28/24 05:04*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/21/24 13:46	06/28/24 05:04	1
Ethylbenzene	ND		0.049	mg/Kg		06/21/24 13:46	06/28/24 05:04	1
Toluene	ND		0.049	mg/Kg		06/21/24 13:46	06/28/24 05:04	1
Xylenes, Total	ND		0.099	mg/Kg		06/21/24 13:46	06/28/24 05:04	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*06/21/24 13:46*	*06/28/24 05:04*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/24 09:30	06/26/24 02:56	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 02:56	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*06/25/24 09:30*	*06/26/24 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		60	mg/Kg		06/25/24 11:07	06/25/24 19:24	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-Surface

Date Collected: 06/19/24 11:25
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6	mg/Kg		06/21/24 13:46	06/28/24 05:26	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*06/21/24 13:46*	*06/28/24 05:26*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		06/21/24 13:46	06/28/24 05:26	1
Ethylbenzene	ND		0.046	mg/Kg		06/21/24 13:46	06/28/24 05:26	1
Toluene	ND		0.046	mg/Kg		06/21/24 13:46	06/28/24 05:26	1
Xylenes, Total	ND		0.091	mg/Kg		06/21/24 13:46	06/28/24 05:26	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*48 - 145*	*06/21/24 13:46*	*06/28/24 05:26*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 03:08	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		06/25/24 09:30	06/26/24 03:08	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*108*		*62 - 134*	*06/25/24 09:30*	*06/26/24 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		150	mg/Kg		06/25/24 11:07	06/26/24 16:01	50

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-1ft

Date Collected: 06/19/24 11:33
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-8

Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 05:47	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*06/21/24 13:46*	*06/28/24 05:47*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 05:47	1
Ethylbenzene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 05:47	1
Toluene	ND		0.048	mg/Kg		06/21/24 13:46	06/28/24 05:47	1
Xylenes, Total	ND		0.095	mg/Kg		06/21/24 13:46	06/28/24 05:47	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*06/21/24 13:46*	*06/28/24 05:47*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/24 09:30	06/26/24 03:21	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 03:21	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*06/25/24 09:30*	*06/26/24 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2100**		60	mg/Kg		06/25/24 11:07	06/25/24 19:48	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-2ft
Date Collected: 06/19/24 11:55
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-9
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 06:09	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*35 - 166*	*06/21/24 13:46*	*06/28/24 06:09*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/21/24 13:46	06/28/24 06:09	1
Ethylbenzene	ND		0.049	mg/Kg		06/21/24 13:46	06/28/24 06:09	1
Toluene	ND		0.049	mg/Kg		06/21/24 13:46	06/28/24 06:09	1
Xylenes, Total	ND		0.097	mg/Kg		06/21/24 13:46	06/28/24 06:09	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*06/21/24 13:46*	*06/28/24 06:09*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/24 09:30	06/26/24 03:33	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 03:33	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*107*		*62 - 134*	*06/25/24 09:30*	*06/26/24 03:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		60	mg/Kg		06/25/24 11:07	06/25/24 20:01	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-3ft
Date Collected: 06/19/24 12:20
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-10
Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 06:31	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166	06/21/24 13:46	06/28/24 06:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/21/24 13:46	06/28/24 06:31	1
Ethylbenzene	ND		0.050	mg/Kg		06/21/24 13:46	06/28/24 06:31	1
Toluene	ND		0.050	mg/Kg		06/21/24 13:46	06/28/24 06:31	1
Xylenes, Total	ND		0.10	mg/Kg		06/21/24 13:46	06/28/24 06:31	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145	06/21/24 13:46	06/28/24 06:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/25/24 09:30	06/26/24 03:46	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/24 09:30	06/26/24 03:46	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134	06/25/24 09:30	06/26/24 03:46	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		60	mg/Kg		06/25/24 11:07	06/25/24 20:13	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-4ft

Date Collected: 06/19/24 13:00
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-11

Matrix: Solid

Method: SW846 8015M/D - 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		06/21/24 13:46	06/28/24 06:53	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*06/21/24 13:46*	*06/28/24 06:53*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/21/24 13:46	06/28/24 06:53	1
Ethylbenzene	ND		0.050	mg/Kg		06/21/24 13:46	06/28/24 06:53	1
Toluene	ND		0.050	mg/Kg		06/21/24 13:46	06/28/24 06:53	1
Xylenes, Total	ND		0.10	mg/Kg		06/21/24 13:46	06/28/24 06:53	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*06/21/24 13:46*	*06/28/24 06:53*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/24 09:30	06/26/24 03:58	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 03:58	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*112*		*62 - 134*	*06/25/24 09:30*	*06/26/24 03:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		150	mg/Kg		06/25/24 11:07	06/26/24 16:13	50

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS9-Surface

Date Collected: 06/19/24 11:28
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-12

Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 03:05	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*06/24/24 14:13*	*06/29/24 03:05*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/24/24 14:13	06/29/24 03:05	1
Ethylbenzene	ND		0.050	mg/Kg		06/24/24 14:13	06/29/24 03:05	1
Toluene	ND		0.050	mg/Kg		06/24/24 14:13	06/29/24 03:05	1
Xylenes, Total	ND		0.099	mg/Kg		06/24/24 14:13	06/29/24 03:05	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*48 - 145*	*06/24/24 14:13*	*06/29/24 03:05*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 04:11	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/24 09:30	06/26/24 04:11	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*06/25/24 09:30*	*06/26/24 04:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		60	mg/Kg		06/25/24 11:07	06/25/24 20:38	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS9-1ft
Date Collected: 06/19/24 11:35
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-13
Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 03:29	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*06/24/24 14:13*	*06/29/24 03:29*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/24/24 14:13	06/29/24 03:29	1
Ethylbenzene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 03:29	1
Toluene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 03:29	1
Xylenes, Total	ND		0.098	mg/Kg		06/24/24 14:13	06/29/24 03:29	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*48 - 145*	*06/24/24 14:13*	*06/29/24 03:29*	*1*

Method: SW846 8015M/D - 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		06/25/24 09:30	06/26/24 04:23	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/24 09:30	06/26/24 04:23	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*115*		*62 - 134*	*06/25/24 09:30*	*06/26/24 04:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60	mg/Kg		06/25/24 11:07	06/25/24 21:15	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS10-Surface

Date Collected: 06/19/24 13:20
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-14

Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 03:52	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*06/24/24 14:13*	*06/29/24 03:52*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/24/24 14:13	06/29/24 03:52	1
Ethylbenzene	ND		0.048	mg/Kg		06/24/24 14:13	06/29/24 03:52	1
Toluene	ND		0.048	mg/Kg		06/24/24 14:13	06/29/24 03:52	1
Xylenes, Total	ND		0.097	mg/Kg		06/24/24 14:13	06/29/24 03:52	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*06/24/24 14:13*	*06/29/24 03:52*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3	mg/Kg		06/25/24 09:30	06/26/24 04:36	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		06/25/24 09:30	06/26/24 04:36	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*121*		*62 - 134*	*06/25/24 09:30*	*06/26/24 04:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/25/24 11:07	06/25/24 21:27	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS10-1ft

Date Collected: 06/19/24 13:45
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-15

Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 04:16	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		35 - 166	06/24/24 14:13	06/29/24 04:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/24/24 14:13	06/29/24 04:16	1
Ethylbenzene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 04:16	1
Toluene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 04:16	1
Xylenes, Total	ND		0.098	mg/Kg		06/24/24 14:13	06/29/24 04:16	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		48 - 145	06/24/24 14:13	06/29/24 04:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.9	mg/Kg		06/25/24 09:30	06/26/24 04:49	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		06/25/24 09:30	06/26/24 04:49	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134	06/25/24 09:30	06/26/24 04:49	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/26/24 07:03	06/26/24 08:48	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS11-Surface

Date Collected: 06/19/24 14:00
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-16
Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 04:39	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		35 - 166	06/24/24 14:13	06/29/24 04:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		06/24/24 14:13	06/29/24 04:39	1
Ethylbenzene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 04:39	1
Toluene	ND		0.049	mg/Kg		06/24/24 14:13	06/29/24 04:39	1
Xylenes, Total	ND		0.097	mg/Kg		06/24/24 14:13	06/29/24 04:39	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		48 - 145	06/24/24 14:13	06/29/24 04:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		06/25/24 09:30	06/26/24 05:01	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		06/25/24 09:30	06/26/24 05:01	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134	06/25/24 09:30	06/26/24 05:01	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		06/26/24 07:03	06/26/24 09:01	20

Client Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS11-1ft

Date Collected: 06/19/24 14:30
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-17

Matrix: Solid

Method: SW846 8015M/D - 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		06/24/24 14:13	06/29/24 05:03	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		35 - 166	06/24/24 14:13	06/29/24 05:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/24/24 14:13	06/29/24 05:03	1
Ethylbenzene	ND		0.050	mg/Kg		06/24/24 14:13	06/29/24 05:03	1
Toluene	ND		0.050	mg/Kg		06/24/24 14:13	06/29/24 05:03	1
Xylenes, Total	ND		0.10	mg/Kg		06/24/24 14:13	06/29/24 05:03	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		48 - 145	06/24/24 14:13	06/29/24 05:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	11		9.5	mg/Kg		06/25/24 09:30	06/26/24 05:14	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		06/25/24 09:30	06/26/24 05:14	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134	06/25/24 09:30	06/26/24 05:14	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78		60	mg/Kg		06/26/24 07:03	06/26/24 09:13	20

QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

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

Lab Sample ID: MB 885-7190/1-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7190

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/21/24 13:46	06/27/24 21:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*06/21/24 13:46*	*06/27/24 21:47*	*1*

Lab Sample ID: LCS 885-7190/2-A
Matrix: Solid
Analysis Batch: 7670

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	24.2		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*202*	*S1+*	*35 - 166*

Lab Sample ID: MB 885-7272/1-A
Matrix: Solid
Analysis Batch: 7614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7272

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0	mg/Kg		06/24/24 14:13	06/28/24 17:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*06/24/24 14:13*	*06/28/24 17:18*	*1*

Lab Sample ID: LCS 885-7272/2-A
Matrix: Solid
Analysis Batch: 7614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics [C6 - C10]	25.0	27.2		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*215*	*S1+*	*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7190/1-A
Matrix: Solid
Analysis Batch: 7672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7190

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/21/24 13:46	06/27/24 21:47	1
Ethylbenzene	ND		0.050	mg/Kg		06/21/24 13:46	06/27/24 21:47	1
Toluene	ND		0.050	mg/Kg		06/21/24 13:46	06/27/24 21:47	1
Xylenes, Total	ND		0.10	mg/Kg		06/21/24 13:46	06/27/24 21:47	1

QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

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

Lab Sample ID: MB 885-7190/1-A
Matrix: Solid
Analysis Batch: 7672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7190

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145	06/21/24 13:46	06/27/24 21:47	1

Lab Sample ID: LCS 885-7190/3-A
Matrix: Solid
Analysis Batch: 7672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7190

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.870		mg/Kg		87	70 - 130
Ethylbenzene	1.00	0.887		mg/Kg		89	70 - 130
Toluene	1.00	0.876		mg/Kg		88	70 - 130
Xylenes, Total	3.00	2.65		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		48 - 145

Lab Sample ID: MB 885-7272/1-A
Matrix: Solid
Analysis Batch: 7615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7272

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		06/24/24 14:13	06/28/24 17:18	1
Ethylbenzene	ND		0.050	mg/Kg		06/24/24 14:13	06/28/24 17:18	1
Toluene	ND		0.050	mg/Kg		06/24/24 14:13	06/28/24 17:18	1
Xylenes, Total	ND		0.10	mg/Kg		06/24/24 14:13	06/28/24 17:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		48 - 145	06/24/24 14:13	06/28/24 17:18	1

Lab Sample ID: LCS 885-7272/3-A
Matrix: Solid
Analysis Batch: 7615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.909		mg/Kg		91	70 - 130
Ethylbenzene	1.00	0.870		mg/Kg		87	70 - 130
Toluene	1.00	0.866		mg/Kg		87	70 - 130
Xylenes, Total	3.00	2.66		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		48 - 145

QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

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

Lab Sample ID: MB 885-7300/1-A
Matrix: Solid
Analysis Batch: 7313

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7300

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		06/25/24 09:30	06/26/24 01:26	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		06/25/24 09:30	06/26/24 01:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*06/25/24 09:30*	*06/26/24 01:26*	*1*

Lab Sample ID: LCS 885-7300/2-A
Matrix: Solid
Analysis Batch: 7313

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7300

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.1		mg/Kg		92	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*106*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7324/1-A
Matrix: Solid
Analysis Batch: 7377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7324

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		06/25/24 11:07	06/25/24 15:04	1

Lab Sample ID: LCS 885-7324/2-A
Matrix: Solid
Analysis Batch: 7377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.1		mg/Kg		94	90 - 110

Lab Sample ID: MB 885-7371/1-A
Matrix: Solid
Analysis Batch: 7506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7371

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	mg/Kg		06/26/24 07:03	06/26/24 08:06	1

Lab Sample ID: LCS 885-7371/2-A
Matrix: Solid
Analysis Batch: 7506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7371

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	30.0	28.5		mg/Kg		95	90 - 110

QC Sample Results

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-7377/98
Matrix: Solid
Analysis Batch: 7377

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			06/26/24 00:45	1

Lab Sample ID: MRL 885-7377/97
Matrix: Solid
Analysis Batch: 7377

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.523		mg/L		105	50 - 150		

Lab Sample ID: MB 885-7506/77
Matrix: Solid
Analysis Batch: 7506

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/Kg			06/26/24 17:18	1

Lab Sample ID: MRL 885-7506/76
Matrix: Solid
Analysis Batch: 7506

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.528		mg/L		106	50 - 150		

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

GC VOA

Prep Batch: 7190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	5030C	
885-6687-2	CS5-1ft	Total/NA	Solid	5030C	
885-6687-3	CS6-Surface	Total/NA	Solid	5030C	
885-6687-4	CS6-1ft	Total/NA	Solid	5030C	
885-6687-5	CS7-Surface	Total/NA	Solid	5030C	
885-6687-6	CS7-1ft	Total/NA	Solid	5030C	
885-6687-7	CS8-Surface	Total/NA	Solid	5030C	
885-6687-8	CS8-1ft	Total/NA	Solid	5030C	
885-6687-9	CS8-2ft	Total/NA	Solid	5030C	
885-6687-10	CS8-3ft	Total/NA	Solid	5030C	
885-6687-11	CS8-4ft	Total/NA	Solid	5030C	
MB 885-7190/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7190/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7190/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 7272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-12	CS9-Surface	Total/NA	Solid	5030C	
885-6687-13	CS9-1ft	Total/NA	Solid	5030C	
885-6687-14	CS10-Surface	Total/NA	Solid	5030C	
885-6687-15	CS10-1ft	Total/NA	Solid	5030C	
885-6687-16	CS11-Surface	Total/NA	Solid	5030C	
885-6687-17	CS11-1ft	Total/NA	Solid	5030C	
MB 885-7272/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-7272/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-7272/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Analysis Batch: 7614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-12	CS9-Surface	Total/NA	Solid	8015M/D	7272
885-6687-13	CS9-1ft	Total/NA	Solid	8015M/D	7272
885-6687-14	CS10-Surface	Total/NA	Solid	8015M/D	7272
885-6687-15	CS10-1ft	Total/NA	Solid	8015M/D	7272
885-6687-16	CS11-Surface	Total/NA	Solid	8015M/D	7272
885-6687-17	CS11-1ft	Total/NA	Solid	8015M/D	7272
MB 885-7272/1-A	Method Blank	Total/NA	Solid	8015M/D	7272
LCS 885-7272/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7272

Analysis Batch: 7615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-12	CS9-Surface	Total/NA	Solid	8021B	7272
885-6687-13	CS9-1ft	Total/NA	Solid	8021B	7272
885-6687-14	CS10-Surface	Total/NA	Solid	8021B	7272
885-6687-15	CS10-1ft	Total/NA	Solid	8021B	7272
885-6687-16	CS11-Surface	Total/NA	Solid	8021B	7272
885-6687-17	CS11-1ft	Total/NA	Solid	8021B	7272
MB 885-7272/1-A	Method Blank	Total/NA	Solid	8021B	7272
LCS 885-7272/3-A	Lab Control Sample	Total/NA	Solid	8021B	7272

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

GC VOA

Analysis Batch: 7670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	8015M/D	7190
885-6687-2	CS5-1ft	Total/NA	Solid	8015M/D	7190
885-6687-3	CS6-Surface	Total/NA	Solid	8015M/D	7190
885-6687-4	CS6-1ft	Total/NA	Solid	8015M/D	7190
885-6687-5	CS7-Surface	Total/NA	Solid	8015M/D	7190
885-6687-6	CS7-1ft	Total/NA	Solid	8015M/D	7190
885-6687-7	CS8-Surface	Total/NA	Solid	8015M/D	7190
885-6687-8	CS8-1ft	Total/NA	Solid	8015M/D	7190
885-6687-9	CS8-2ft	Total/NA	Solid	8015M/D	7190
885-6687-10	CS8-3ft	Total/NA	Solid	8015M/D	7190
885-6687-11	CS8-4ft	Total/NA	Solid	8015M/D	7190
MB 885-7190/1-A	Method Blank	Total/NA	Solid	8015M/D	7190
LCS 885-7190/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7190

Analysis Batch: 7672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	8021B	7190
885-6687-2	CS5-1ft	Total/NA	Solid	8021B	7190
885-6687-3	CS6-Surface	Total/NA	Solid	8021B	7190
885-6687-4	CS6-1ft	Total/NA	Solid	8021B	7190
885-6687-5	CS7-Surface	Total/NA	Solid	8021B	7190
885-6687-6	CS7-1ft	Total/NA	Solid	8021B	7190
885-6687-7	CS8-Surface	Total/NA	Solid	8021B	7190
885-6687-8	CS8-1ft	Total/NA	Solid	8021B	7190
885-6687-9	CS8-2ft	Total/NA	Solid	8021B	7190
885-6687-10	CS8-3ft	Total/NA	Solid	8021B	7190
885-6687-11	CS8-4ft	Total/NA	Solid	8021B	7190
MB 885-7190/1-A	Method Blank	Total/NA	Solid	8021B	7190
LCS 885-7190/3-A	Lab Control Sample	Total/NA	Solid	8021B	7190

GC Semi VOA

Prep Batch: 7300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	SHAKE	
885-6687-2	CS5-1ft	Total/NA	Solid	SHAKE	
885-6687-3	CS6-Surface	Total/NA	Solid	SHAKE	
885-6687-4	CS6-1ft	Total/NA	Solid	SHAKE	
885-6687-5	CS7-Surface	Total/NA	Solid	SHAKE	
885-6687-6	CS7-1ft	Total/NA	Solid	SHAKE	
885-6687-7	CS8-Surface	Total/NA	Solid	SHAKE	
885-6687-8	CS8-1ft	Total/NA	Solid	SHAKE	
885-6687-9	CS8-2ft	Total/NA	Solid	SHAKE	
885-6687-10	CS8-3ft	Total/NA	Solid	SHAKE	
885-6687-11	CS8-4ft	Total/NA	Solid	SHAKE	
885-6687-12	CS9-Surface	Total/NA	Solid	SHAKE	
885-6687-13	CS9-1ft	Total/NA	Solid	SHAKE	
885-6687-14	CS10-Surface	Total/NA	Solid	SHAKE	
885-6687-15	CS10-1ft	Total/NA	Solid	SHAKE	
885-6687-16	CS11-Surface	Total/NA	Solid	SHAKE	
885-6687-17	CS11-1ft	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

GC Semi VOA (Continued)

Prep Batch: 7300 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-7300/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-7300/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 7313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	8015M/D	7300
885-6687-2	CS5-1ft	Total/NA	Solid	8015M/D	7300
885-6687-3	CS6-Surface	Total/NA	Solid	8015M/D	7300
885-6687-4	CS6-1ft	Total/NA	Solid	8015M/D	7300
885-6687-5	CS7-Surface	Total/NA	Solid	8015M/D	7300
885-6687-6	CS7-1ft	Total/NA	Solid	8015M/D	7300
885-6687-7	CS8-Surface	Total/NA	Solid	8015M/D	7300
885-6687-8	CS8-1ft	Total/NA	Solid	8015M/D	7300
885-6687-9	CS8-2ft	Total/NA	Solid	8015M/D	7300
885-6687-10	CS8-3ft	Total/NA	Solid	8015M/D	7300
885-6687-11	CS8-4ft	Total/NA	Solid	8015M/D	7300
885-6687-12	CS9-Surface	Total/NA	Solid	8015M/D	7300
885-6687-13	CS9-1ft	Total/NA	Solid	8015M/D	7300
885-6687-14	CS10-Surface	Total/NA	Solid	8015M/D	7300
885-6687-15	CS10-1ft	Total/NA	Solid	8015M/D	7300
885-6687-16	CS11-Surface	Total/NA	Solid	8015M/D	7300
885-6687-17	CS11-1ft	Total/NA	Solid	8015M/D	7300
MB 885-7300/1-A	Method Blank	Total/NA	Solid	8015M/D	7300
LCS 885-7300/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	7300

HPLC/IC

Prep Batch: 7324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	300_Prep	
885-6687-2	CS5-1ft	Total/NA	Solid	300_Prep	
885-6687-3	CS6-Surface	Total/NA	Solid	300_Prep	
885-6687-4	CS6-1ft	Total/NA	Solid	300_Prep	
885-6687-5	CS7-Surface	Total/NA	Solid	300_Prep	
885-6687-6	CS7-1ft	Total/NA	Solid	300_Prep	
885-6687-7	CS8-Surface	Total/NA	Solid	300_Prep	
885-6687-8	CS8-1ft	Total/NA	Solid	300_Prep	
885-6687-9	CS8-2ft	Total/NA	Solid	300_Prep	
885-6687-10	CS8-3ft	Total/NA	Solid	300_Prep	
885-6687-11	CS8-4ft	Total/NA	Solid	300_Prep	
885-6687-12	CS9-Surface	Total/NA	Solid	300_Prep	
885-6687-13	CS9-1ft	Total/NA	Solid	300_Prep	
885-6687-14	CS10-Surface	Total/NA	Solid	300_Prep	
MB 885-7324/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7324/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Prep Batch: 7371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-15	CS10-1ft	Total/NA	Solid	300_Prep	
885-6687-16	CS11-Surface	Total/NA	Solid	300_Prep	
885-6687-17	CS11-1ft	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

HPLC/IC (Continued)

Prep Batch: 7371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-7371/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-7371/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 7377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-1	CS5-Surface	Total/NA	Solid	300.0	7324
885-6687-2	CS5-1ft	Total/NA	Solid	300.0	7324
885-6687-3	CS6-Surface	Total/NA	Solid	300.0	7324
885-6687-4	CS6-1ft	Total/NA	Solid	300.0	7324
885-6687-5	CS7-Surface	Total/NA	Solid	300.0	7324
885-6687-6	CS7-1ft	Total/NA	Solid	300.0	7324
885-6687-8	CS8-1ft	Total/NA	Solid	300.0	7324
885-6687-9	CS8-2ft	Total/NA	Solid	300.0	7324
885-6687-10	CS8-3ft	Total/NA	Solid	300.0	7324
885-6687-12	CS9-Surface	Total/NA	Solid	300.0	7324
885-6687-13	CS9-1ft	Total/NA	Solid	300.0	7324
885-6687-14	CS10-Surface	Total/NA	Solid	300.0	7324
MB 885-7324/1-A	Method Blank	Total/NA	Solid	300.0	7324
MB 885-7377/98	Method Blank	Total/NA	Solid	300.0	
LCS 885-7324/2-A	Lab Control Sample	Total/NA	Solid	300.0	7324
MRL 885-7377/97	Lab Control Sample	Total/NA	Solid	300.0	

Analysis Batch: 7506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-6687-7	CS8-Surface	Total/NA	Solid	300.0	7324
885-6687-11	CS8-4ft	Total/NA	Solid	300.0	7324
885-6687-15	CS10-1ft	Total/NA	Solid	300.0	7371
885-6687-16	CS11-Surface	Total/NA	Solid	300.0	7371
885-6687-17	CS11-1ft	Total/NA	Solid	300.0	7371
MB 885-7371/1-A	Method Blank	Total/NA	Solid	300.0	7371
MB 885-7506/77	Method Blank	Total/NA	Solid	300.0	
LCS 885-7371/2-A	Lab Control Sample	Total/NA	Solid	300.0	7371
MRL 885-7506/76	Lab Control Sample	Total/NA	Solid	300.0	

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS5-Surface

Date Collected: 06/19/24 09:30
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 02:53
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 02:53
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 01:52
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 17:57

Client Sample ID: CS5-1ft

Date Collected: 06/19/24 09:45
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 03:37
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 03:37
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 02:05
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 18:10

Client Sample ID: CS6-Surface

Date Collected: 06/19/24 10:37
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 03:58
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 03:58
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 02:18
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 18:47

Client Sample ID: CS6-1ft

Date Collected: 06/19/24 11:06
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 04:20

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS6-1ft

Date Collected: 06/19/24 11:06
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 04:20
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 02:30
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 18:59

Client Sample ID: CS7-Surface

Date Collected: 06/19/24 10:59
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 04:42
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 04:42
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 02:43
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 19:11

Client Sample ID: CS7-1ft

Date Collected: 06/19/24 11:15
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 05:04
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 05:04
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 02:56
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 19:24

Client Sample ID: CS8-Surface

Date Collected: 06/19/24 11:25
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 05:26
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 05:26

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-Surface

Date Collected: 06/19/24 11:25
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 03:08
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		50	7506	SS	EET ALB	06/26/24 16:01

Client Sample ID: CS8-1ft

Date Collected: 06/19/24 11:33
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 05:47
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 05:47
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 03:21
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 19:48

Client Sample ID: CS8-2ft

Date Collected: 06/19/24 11:55
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 06:09
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 06:09
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 03:33
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 20:01

Client Sample ID: CS8-3ft

Date Collected: 06/19/24 12:20
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 06:31
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 06:31
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 03:46

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS8-3ft
Date Collected: 06/19/24 12:20
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 20:13

Client Sample ID: CS8-4ft
Date Collected: 06/19/24 13:00
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8015M/D		1	7670	RA	EET ALB	06/28/24 06:53
Total/NA	Prep	5030C			7190	JR	EET ALB	06/21/24 13:46
Total/NA	Analysis	8021B		1	7672	RA	EET ALB	06/28/24 06:53
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 03:58
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		50	7506	SS	EET ALB	06/26/24 16:13

Client Sample ID: CS9-Surface
Date Collected: 06/19/24 11:28
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 03:05
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 03:05
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 04:11
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 20:38

Client Sample ID: CS9-1ft
Date Collected: 06/19/24 11:35
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 03:29
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 03:29
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 04:23
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 21:15

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS10-Surface
Date Collected: 06/19/24 13:20
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 03:52
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 03:52
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 04:36
Total/NA	Prep	300_Prep			7324	KB	EET ALB	06/25/24 11:07
Total/NA	Analysis	300.0		20	7377	JT	EET ALB	06/25/24 21:27

Client Sample ID: CS10-1ft
Date Collected: 06/19/24 13:45
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 04:16
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 04:16
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 04:49
Total/NA	Prep	300_Prep			7371	JT	EET ALB	06/26/24 07:03
Total/NA	Analysis	300.0		20	7506	SS	EET ALB	06/26/24 08:48

Client Sample ID: CS11-Surface
Date Collected: 06/19/24 14:00
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 04:39
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 04:39
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 05:01
Total/NA	Prep	300_Prep			7371	JT	EET ALB	06/26/24 07:03
Total/NA	Analysis	300.0		20	7506	SS	EET ALB	06/26/24 09:01

Client Sample ID: CS11-1ft
Date Collected: 06/19/24 14:30
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8015M/D		1	7614	JP	EET ALB	06/29/24 05:03

Lab Chronicle

Client: Safety & Environmental Solutions
Project/Site: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

Client Sample ID: CS11-1ft
Date Collected: 06/19/24 14:30
Date Received: 06/21/24 09:00

Lab Sample ID: 885-6687-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			7272	AT	EET ALB	06/24/24 14:13
Total/NA	Analysis	8021B		1	7615	JP	EET ALB	06/29/24 05:03
Total/NA	Prep	SHAKE			7300	KR	EET ALB	06/25/24 09:30
Total/NA	Analysis	8015M/D		1	7313	DH	EET ALB	06/26/24 05:14
Total/NA	Prep	300_Prep			7371	JT	EET ALB	06/26/24 07:03
Total/NA	Analysis	300.0		20	7506	SS	EET ALB	06/26/24 09:13

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: Ross Ranch 10 Fed 1

Job ID: 885-6687-1

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
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	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 & Environmental Solutions

Mailing Address: 703 N Clinton Hobbs, NM 88240

Phone #: (575) 397-0510

email or Fax#: rmartinez@sesi-nm.com

QA/QC Package: ☒ Standard — ballen@sesi-nm.com, office@sesi-nm.com — ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: Ross Ranch 10 Fed 1

Project #: DEV-19-008

Project Manager: Allen, Bob

Sampler: Roberto, Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1 @ 4°

Cooler Temp (including CF): 4.0-0.1=3.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

885-6687 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
6-19-24	9:30 AM	S	CS5 Surface	4oz Jar-1	Ice	1	X	X									X
	9:45 AM	S	CS5-1FT			2	X	X									X
	10:37 AM	S	CS6-Surface			3	X	X									X
	11:06 AM	S	CS6-1FT			4	X	X									X
	10:59 AM	S	CS7-Surface			5	X	X									X
	11:15 AM	S	CS7-1FT			6	X	X									X
	11:25 AM	S	CS8-Surface			7	X	X									X
	11:55 AM	S	CS8-1FT			8	X	X									X
	11:55 AM	S	CS8-2FT			9	X	X									X
	12:20 PM	S	CS8-3FT			10	X	X									X
	13:00 PM	S	CS8-4FT			11	X	X									X
	11:28 AM	S	CS9-Surface			12	X	X									X

Date	Time	Relinquished by	Received by	Via	Date	Time
6.2024	2:10 PM	Fabian Carter	CD		6/20	2:12 PM
Date	Time	Relinquished by	Received by	Via	Date	Time
				courier	6/21/24	9:00

Remarks: Send the results to SESI-email List

If necessary, samples submitted to Hall 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

Chain-of-Custody Record

Client: Safety + Environmental Solutions

Mailing Address: 703 N Clinton Hobbs, NM 88240

Phone #: (575)-397-0310

email or Fax#: rmartinez@sesi-nm.com

QA/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

Project Name: Ross Ranch lo fed 1

Project #: Dev-19-008

Project Manager: Allen, Bob

Sampler: Roberto, Martinez

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 20.5 - 0.1 = 20.4 (°C)

4.0 c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / 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, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
6-19-24	11:35	S	CS9-1ft	4oz Jar 1	Ice	13	X	X									X
	13:20	S	CS10-Surface		Ice	14	X	X									X
	13:45	S	CS10-1ft		Ice	15	X	X									X
	14:00	S	CS11-Surface		Ice	16	X	X									X
	14:30	S	CS11-1ft		Ice	17	X	X									X

Date	Time	Relinquished by	Received by	Via	Date	Time
6.20.24	2:10pm	Fabian Carter			6/20	2:12pm
Date.	Time.	Relinquished by	Received by	Via:	Date	Time
				Courier	6/21/24	9:00

Remarks: Send results to the SESI email LIST

If necessary, samples submitted to Hall 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

Login Sample Receipt Checklist

Client: Safety & Environmental Solutions

Job Number: 885-6687-1

Login Number: 6687
List Number: 1
Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAB1915042001
District RP	2RP-5457
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # *(assigned by OCD)* nAB1915042001
Contact mailing address 6488 Seven Rivers HWY	

Location of Release Source

Latitude 32.0593872 Longitude -103.7596054
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ross Ranch 10 Fed #001	Site Type Salt Water Disposal
Date Release Discovered 5/13/2019	API# *(if applicable)* 30-015-29605

Unit Letter	Section	Township	Range	County
H	10	26S	31E	Eddy

Surface Owner: ☐ State ■ Federal ☐ Tribal ☐ Private (*Name:* Eddy)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
■ Produced Water	Volume Released (bbls) 640	Volume Recovered (bbls) 640
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Lightning struck the water tank and separated at the bottom of the tank. All fluid emptied inside the lined containment. The containment is being evaluated for integrity.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAB1915042001
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? This is considered a major release because it is over 25 BBLS.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Email notification sent to Debhorah Mckinne, Crystal Weaver, Robert Hamlet, Victoria Venegas, Mike Bratcher and Jim Griswold from Amanda Davis on 5/14/19.

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kendra DeHoyos Title: EHS Associate

Signature: Kendra DeHoyos Date: 5/22/2019

email: kendra.dehoyos@dvn.com Telephone: 575-748-3371

OCD Only

Received by: Date:

Devon Energy
Ross Ranch 10 Fed #001

Closure Report

Section 10, T26S, R31E
Lea County, New Mexico

2RP-1136
2RP-4009
2RP-4434
2RP-5457
BLM Order

October 14, 2019

Prepared for:
Devon Energy
P.O. Box 250
Artesia, NM 88211

By:

Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510

I. Company Contacts

Representative	Company	Telephone	E-mail
Amanda Davis	Devon Energy	575-748-0176	Amanda.davis@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site remediation on the Ross Ranch 10 Fed #001, concerning a lightning strike that separated the bottom from a water tank. The tank was located inside the containment and all fluid emptied into the interior of said containment. All impacted areas at the site were remediated in accordance with NMOCD and BLM guidelines respectively to close all open remediation permits.

According to the C-141's beginning with the latest incident: Lightning struck the water tank on May 13, 2019. This caused the bottom of the tank to become severed. All fluids emptied into the containment. This would create a major reconstruction of this area of the facility, therefore SESI was consulted to remediate the site. The Remediation Permit number assigned to this incident is **2RP-5457.** Due to the size of spill area; the decision was made to remediate all impacted areas for this location simultaneously.

A BLM (Bureau of Land Management) Sundry Notices and Reports on Wells was issued to Devon Energy concerning a notification from Devon personnel to a BLM representative regarding a 1.037 BBLS release of oil that occurred on 4/6/2019. This incident occurred as a result of a heater treater popped off due to being swamped out and creating an overspray of the adjacent pasture area.

A C-141 notification was filed with the NMOCD regarding an incident that occurred on September 27, 2017. This incident occurred as a result of a .5 bbls (non-reportable minor incident) due to a stuck dump valve causing the test two phase separator to swamp out, releasing a mist from the vent tank line. Devon personnel took proactive measures, minimizing impact to the pasture area by switching from the test equipment to the production equipment to stop the release. This was assigned Remediation Permit number **2RP-4434**

A C-141 notification was filed with the NMOCD regarding an incident that occurred on November 19, 2016, whereby approximately 15 BBLS of produced water from a split fitting on the water line causing a release onto the pad and pasture area. Devon personnel dispatched a vacuum truck that was able to recover 12 BBLS of fluid, thereby minimizing the impact. The release was located on the South side of the tanks on pad and nearby pasture area. This spill impacted an approximate 3'x100' area that was remediated simultaneously with the latest incident. This incident was assigned remediation permit number **2RP-4009.**

A C-141 Initial notification was filed with NMOCD regarding an incident that occurred on April 25, 2012, whereby the dump hung "open" on the free water knockout at the Snapping 2 St. #7. This sent a large volume of fluid to the gun barrel at the Ross Ranch SWD creating an overflow of approximately 100 BBL of fluid. All fluid remained in the containment; Devon personnel dispatched a vacuum truck that recovered 100 BBL of fluid. The Remediation Permit Number assigned to this incident is **2RP-1136.** Mr. Bratcher with the NMOCD requested a final C-141. The final C-141 for this remediation permit will be included with this report (Appendix B).

III. Surface and Ground Water

According to research of The New Mexico Office of the State Engineer there were no records for Township 26S, Range 31E, and Section 10, however the records indicate depth to groundwater to be an average of 317' bgs. for this area. The nearest POD for this site is C 02090 with a depth to water of 335' bgs. (Appendix D).

IV. Characterization

This has been remediated in accordance the NMOCD published guidelines (July 24, 2018). Furthermore, all pasture impact was remediated in accordance with Spill Rule 19.15.29 NMAC, and BLM guidelines. The site ranking and soil screening levels as presented in the table below:

Table 1
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 8015B	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 8015B	2,500 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 8015B	2,500 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

The soil classification for this area is of the Simona-Pajarito association: Sandy, deep soils and soils that are shallow to caliche, from wind-worked deposits.

V. Work Performed

On June 07, 2019 SESI personnel, together with Mr. Norman Favor from Devon Energy, were on location to assess two spill events (2RP-4009 and 2RP-4434). Spill Event for **RP4434** is located on the East side of the location. Spill event **RP4009** was located on the South side of the location (south of tanks). The location was photographed, the spill areas mapped utilizing a Trimble handheld Juno 3B device for accuracy and depiction of impacted area (s). SESI personnel traversed the release areas in order to determine the locations for installation of auger holes for soil testing. Soil samples were grabbed from ground surface and at 1' increments to 2.5' Bgs., in order to field test for Total Petroleum Hydrocarbons (TPH), and Chloride (Cl) constituencies. A total of twelve (12) auger holes were advanced, and the soil field tested for TPH & Chlorides. The field results are recapped as follows:

Pad Area: Field Results		
SAMPLE ID	TPH Mg/kg	Chlorides Mg/kg
AH-1 @ 1ft	15	1060
AH-2 @ 1ft	20	1060
AH-3 @ 1ft	49	284
AH-4 @ 1ft	19	312
AH-5 @ 1ft	154	224
AH-6 @ 1ft	140	252
AH-7 @ 1ft	167	7476
AH-8 @ 1ft	150	6928
AH-9 @ 1ft	62	1636
AH-10 @ 1ft	52	1524
AH-11 @ 1ft	58	1760
AH-12 @ 1 ft	70	1636

Spill Area Field Results 2RP-4009	
SAMPLE ID	Chlorides Mg/kg
AH-1 @ 1ft	2240
AH-2 @ 1ft	2572
AH-3 @ 1ft	3672
AH-3 @ 2.5ft	148
AH-4 @ 1ft	3380
AH-4 @ 2.5ft	172
AH-5 @ 1ft	3672
AH-5 @ 2.5ft	148
AH-9 @ 1ft	1636

Spill Area Field Results 2RP-4434		
SAMPLE ID	TPH Mg/kg	Chlorides Mg/kg
AH-1 @ 1ft	500	234
AH-2 @ 1ft	432	312
AH-3 @ 1ft	460	284

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (Cl Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results from delineation of the pad area are tabulated in the table below:

Soil Sample Results: Hall Environmental Laboratories Pad Area 6/11/2019									
SAMPLE ID	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH GRO	TPH DRO	TPH MRO	Chlorides
AH-1 Surface	ND	ND	ND	ND	ND	ND	ND	ND	1200
AH-1 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	710
AH-2 Surface	ND	ND	ND	ND	ND	ND	120	100	1200
AH-2 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	460
AH-3 Surface	ND	ND	ND	ND	ND	ND	11	ND	170
AH-3 @ 1ft	ND	ND	ND	ND	ND	ND	14	ND	160
AH-4 Surface	ND	ND	ND	ND	ND	ND	ND	ND	4300
AH-4 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	130
AH-5 Surface	ND	ND	ND	ND	ND	ND	**3100**	**2700**	2200
AH-5 @ 1ft	ND	ND	ND	ND	ND	ND	25	ND	110
AH-6 Surface	ND	ND	ND	ND	ND	ND	**2400**	**1500**	2800
AH-6 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	99
AH-7 Surface	ND	ND	ND	ND	ND	ND	15	ND	1300
AH-7 @ 1ft	ND	ND	ND	ND	ND	ND	80	72	5100
AH-8 Surface	ND	ND	ND	ND	ND	ND	110	92	4700
AH-8 @ 1ft	ND	ND	ND	ND	ND	ND	77	70	6100
AH-9 Surface	ND	ND	ND	ND	ND	ND	160	170	2300
AH-9 @ 1ft	ND	ND	ND	ND	ND	ND	22	ND	1000
AH-10 Surface	ND	ND	ND	ND	ND	ND	940	750	700
AH-10 @ 1ft	ND	ND	ND	ND	ND	ND	16	ND	1500

AH-11 Surface	ND	ND	ND	ND	ND	ND	56	75	4700
AH-11 @ 1ft	ND	ND	ND	ND	ND	ND	28	ND	1500
AH-12 Surface	ND	ND	ND	ND	ND	ND	ND	ND	2100
AH-12 @ 1ft	ND	Nd	ND	ND	ND	ND	17	ND	1500

SESI field technician grabbed soil samples from the spill area on the south side of the tanks, as well as the adjacent pasture area. This area was assessed in connection with the remediation permit number **2RP-4009**. All soil samples were properly packaged, preserved, and transported to Hall Environmental Analysis Laboratory, Inc., via Chain of Custody for analyses of the following constituencies: Chloride (Cl Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results from delineation of the pad area are tabulated in the table below:

Soil Sample Results: Hall Environmental Laboratories Results 06-11-19 (2RP-4009)									
SAMPLE ID	Benzene	Toluene	Ethyl benzene	Total Xylenes	Total BTEX	TPH GRO	TPH DRO	TPH MRO	Chlorides
AH-1 Surface	ND	ND	ND	ND	ND	ND	170	860	4800
AH-1 @ 1ft	ND	ND	ND	ND	ND	ND	19	100	2300
AH-2 Surface	ND	ND	ND	ND	ND	ND	3400	8000	550
AH-2 @ 1ft	ND	ND	ND	ND	ND	ND	18	97	2300
AH-3 Surface	ND	ND	ND	ND	ND	ND	43	160	8300
AH-3 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	4200
AH-3 @ 2.5ft	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH-4 @ Surface	ND	ND	ND	ND	ND	ND	620	1000	910
AH-4 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	3400
AH-4 @ 2.5ft	ND	ND	ND	ND	ND	ND	ND	ND	ND
AH-5 @ Surface	ND	ND	ND	ND	ND	ND	13	110	2100
AH-5 @ 1ft	ND	ND	ND	ND	ND	ND	ND	ND	3400
AH-5 @ 2.5ft	ND	ND	ND	ND	ND	ND	ND	ND	ND

The installation and advancement of auger holes as well as the subsequent analysis of soil extracted from them indicate that the vertical migration of the chlorides does not extend deeper than 2.5' bgs. for any incident.

Areas with chloride concentrations greater than 400 ppm were excavated to a depth of 2'. The soil was blended with soil from areas with less concentrations, and fresh topsoil to a level no greater than 400 ppm, and used for backfill. All impacted soil was transported offsite for disposal to an NMOCD approved facility. The site was returned to grade.

VI. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements

As a result, we respectfully submit this closure report for your consideration and approval.

VII. Figures & Appendices

Figure 1 – Site Plan
Appendix A – Site Photographs
Appendix B – C-141
Appendix C – Lab Results

Devon Ross Ranch

Site Remediation

Legend

- Fence 8
- Pasture Impact
- Pipeline 7
- Ross Ranch 10 Fed 1
- Spill Area

Ross Ranch 10 Fed 1

Sample Point 4

Sample Point 6

2RP-4434
BLM

2RP-1136

2RP-5457

2RP-4009

Survey
Google Earth

N

100 ft

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01777		C	ED				08	26S	31E	613245	3547409*	325	300	25
C 02090		C	ED		4	4	01	26S	31E	620329	3548533*	350	335	15
C 02248		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 02249		CUB	ED	1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 03554 POD1		CUB	ED	2	1	4	01	26S	31E	620547	3549148	630	300	330
C 03639 POD1		CUB	ED	3	4	2	01	26S	31E	620168	3549279	700	365	335
C 04256 POD1		C	ED	4	4	2	01	26S	31E	620384	3549257	666	340	326

Average Depth to Water: **317 feet**

Minimum Depth: **292 feet**

Maximum Depth: **365 feet**

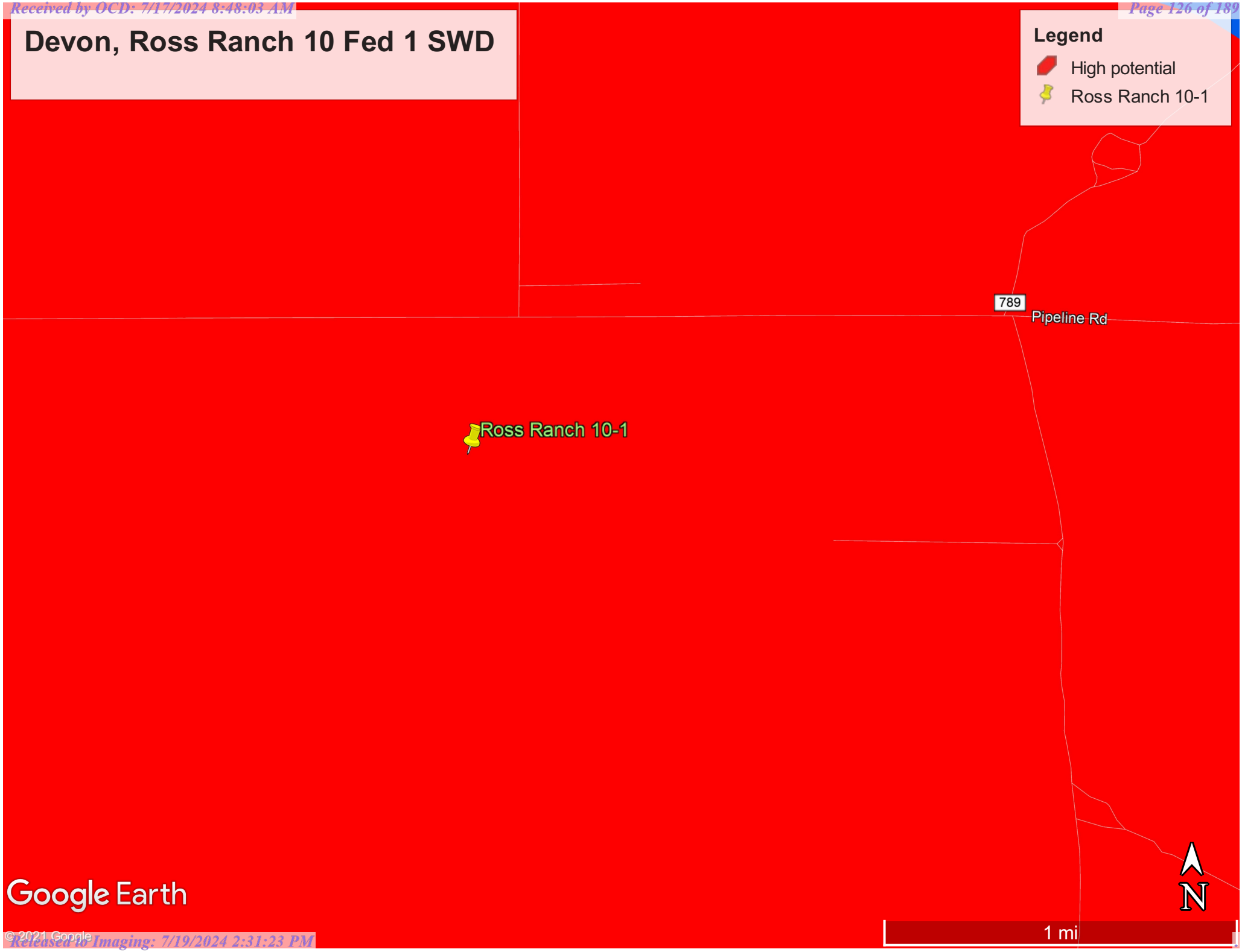
Record Count: 7

PLSS Search:

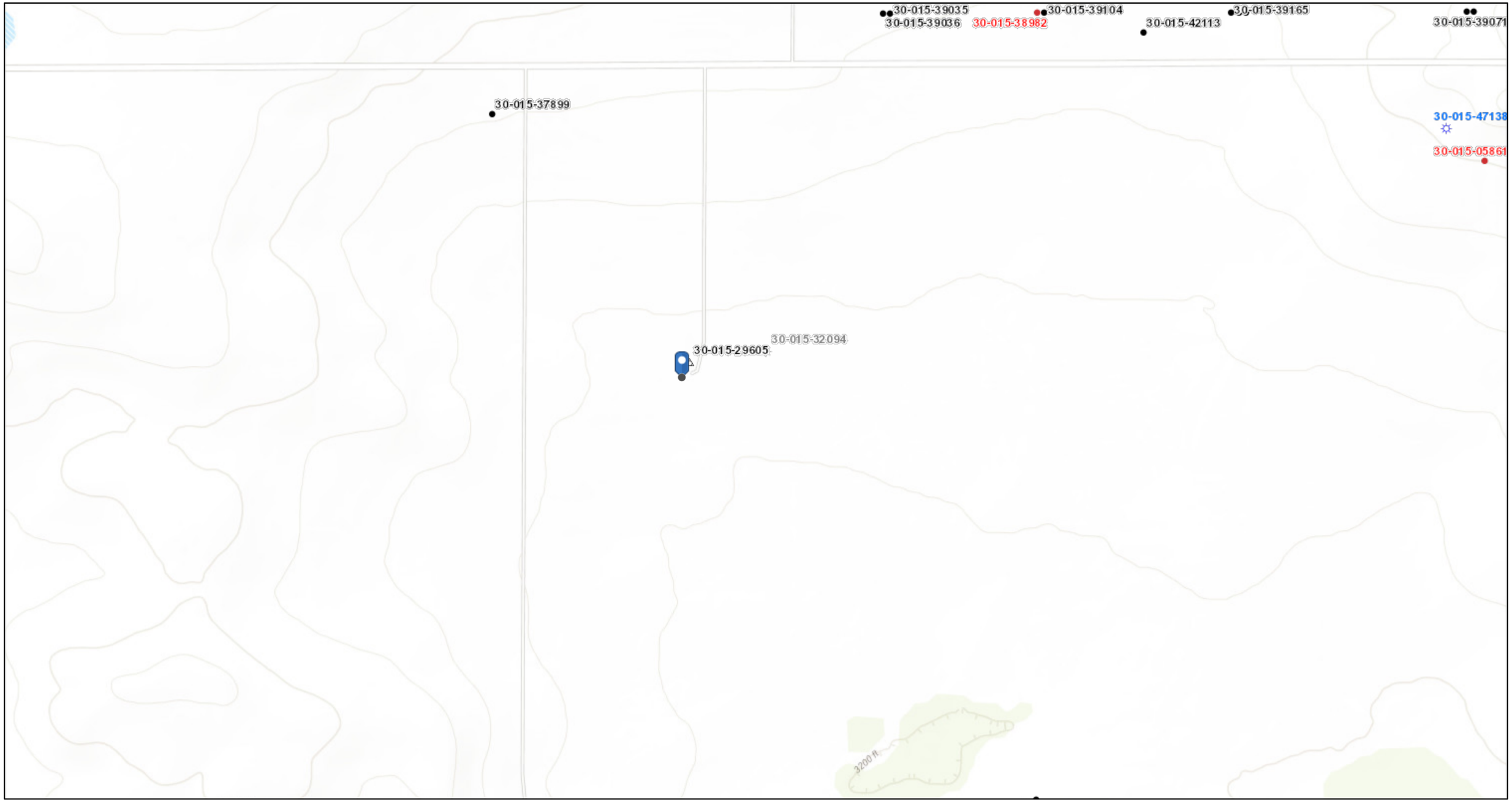
Township: 26S **Range:** 31E

***UTM location was derived from PLSS - see Help**

Devon, Ross Ranch 10 Fed 1 SWD



Devon, Ross Ranch 10 Fed 1 SWD



5/18/2021, 9:39:09 AM

Wells - Large Scale

- undefined
- Miscellaneous
- CO2, Active
- CO2, Cancelled
- CO2, New
- CO2, Plugged
- CO2, Temporarily Abandoned
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- 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

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

DEVON ENERGY
ROSS RANCH 10 FEDERAL #1

Severed Tank 05-13-19 **2RP-5457**

Interior of Containment 05-13-19

Day 3 Excavation S. Side of location

Day 3 Excavation East side of location

Day 3 SE Corner of Excavation on S side

Day 3 South side of Location Excavation

DEVON ENERGY
ROSS RANCH 10 FEDERAL #1

Day 4 East Corner of Excavation S. Side-Location **(2RP-5457 and 2RP-4009)**

Day 4 Middle of excavation-South Side

Over Spray from heater treaters-East Side **BLM**

NW Corner of excavation on East side of Location

Corner of excavation on East side of location

Corner of East side at completion

DEVON ENERGY
ROSS RANCH 10 FEDERAL #1

Completion

NE Corner at completion **2RP-5457**

NW Corner on East Side

NW Corner of East side at completion

SE Corner of excavation on East side of Location **2RP-4009**

SE Corner of pasture area on South Side of location

State of New Mexico
Oil Conservation Division

Incident ID	nAB1915042001
District RP	2RP-5437
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1728628311
District RP	2RP-4434
Facility ID	
Application ID	

Closure

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

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☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	nMBL1215052644
District RP	2RP-1136
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1633633401
District RP	2RP-4009
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 12/14/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 2:15:00 PM
Lab ID: 1906574-001 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	4800	150		mg/Kg	50	6/18/2019 1:00:00 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	170	94		mg/Kg	10	6/13/2019 6:20:31 PM	45543
Motor Oil Range Organics (MRO)	860	470		mg/Kg	10	6/13/2019 6:20:31 PM	45543
Surr: DNOP	0	70-130	S	%Rec	10	6/13/2019 6:20:31 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 12:40:18 PM	45509
Surr: BFB	113	73.8-119		%Rec	1	6/13/2019 12:40:18 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2019 12:40:18 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/13/2019 12:40:18 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 12:40:18 PM	45509
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 12:40:18 PM	45509
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	6/13/2019 12:40:18 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 2:25:00 PM
Lab ID: 1906574-002 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2300	60		mg/Kg	20	6/17/2019 2:18:00 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	19	9.6		mg/Kg	1	6/13/2019 6:42:55 PM	45543
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	6/13/2019 6:42:55 PM	45543
Surr: DNOP	118	70-130		%Rec	1	6/13/2019 6:42:55 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 1:03:23 PM	45509
Surr: BFB	113	73.8-119		%Rec	1	6/13/2019 1:03:23 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 1:03:23 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/13/2019 1:03:23 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 1:03:23 PM	45509
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 1:03:23 PM	45509
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/13/2019 1:03:23 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 2:30:00 PM
Lab ID: 1906574-003 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	550	60		mg/Kg	20	6/17/2019 2:30:24 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	3400	95		mg/Kg	10	6/13/2019 7:05:11 PM	45543
Motor Oil Range Organics (MRO)	8000	480		mg/Kg	10	6/13/2019 7:05:11 PM	45543
Surr: DNOP	0	70-130	S	%Rec	10	6/13/2019 7:05:11 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2019 1:26:29 PM	45509
Surr: BFB	119	73.8-119		%Rec	1	6/13/2019 1:26:29 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/13/2019 1:26:29 PM	45509
Toluene	ND	0.048		mg/Kg	1	6/13/2019 1:26:29 PM	45509
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2019 1:26:29 PM	45509
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 1:26:29 PM	45509
Surr: 4-Bromofluorobenzene	117	80-120		%Rec	1	6/13/2019 1:26:29 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 2:45:00 PM
Lab ID: 1906574-004 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	2300	60		mg/Kg	20	6/17/2019 2:42:49 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	18	9.9		mg/Kg	1	6/17/2019 8:00:06 PM	45543
Motor Oil Range Organics (MRO)	97	49		mg/Kg	1	6/17/2019 8:00:06 PM	45543
Surr: DNOP	125	70-130		%Rec	1	6/17/2019 8:00:06 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 2:12:55 PM	45509
Surr: BFB	115	73.8-119		%Rec	1	6/13/2019 2:12:55 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:12:55 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/13/2019 2:12:55 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 2:12:55 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/13/2019 2:12:55 PM	45509
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/13/2019 2:12:55 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 2:50:00 PM
Lab ID: 1906574-005 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	8300	590		mg/Kg	200	6/18/2019 1:00:00 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	43	9.8		mg/Kg	1	6/17/2019 8:22:13 PM	45543
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	6/17/2019 8:22:13 PM	45543
Surr: DNOP	132	70-130	S	%Rec	1	6/17/2019 8:22:13 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2019 2:53:00 PM	45509
Surr: BFB	114	73.8-119		%Rec	1	6/14/2019 2:53:00 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/14/2019 2:53:00 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/14/2019 2:53:00 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2019 2:53:00 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2019 2:53:00 PM	45509
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	6/14/2019 2:53:00 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 3:10:00 PM
Lab ID: 1906574-006 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	4200	150		mg/Kg	50	6/18/2019 1:00:00 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/13/2019 8:12:19 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 8:12:19 PM	45543
Surr: DNOP	121	70-130		%Rec	1	6/13/2019 8:12:19 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2019 4:04:58 PM	45509
Surr: BFB	99.0	73.8-119		%Rec	1	6/14/2019 4:04:58 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/14/2019 4:04:58 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/14/2019 4:04:58 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2019 4:04:58 PM	45509
Xylenes, Total	ND	0.099		mg/Kg	1	6/14/2019 4:04:58 PM	45509
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/14/2019 4:04:58 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 2.5ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 3:25:00 PM
Lab ID: 1906574-007 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	ND	60		mg/Kg	20	6/17/2019 3:44:52 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/13/2019 8:57:01 PM	45543
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2019 8:57:01 PM	45543
Surr: DNOP	117	70-130		%Rec	1	6/13/2019 8:57:01 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/14/2019 4:28:49 PM	45509
Surr: BFB	96.7	73.8-119		%Rec	1	6/14/2019 4:28:49 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/14/2019 4:28:49 PM	45509
Toluene	ND	0.048		mg/Kg	1	6/14/2019 4:28:49 PM	45509
Ethylbenzene	ND	0.048		mg/Kg	1	6/14/2019 4:28:49 PM	45509
Xylenes, Total	ND	0.097		mg/Kg	1	6/14/2019 4:28:49 PM	45509
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	6/14/2019 4:28:49 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 3:30:00 PM
Lab ID: 1906574-008 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	910	59		mg/Kg	20	6/17/2019 3:57:16 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	620	94		mg/Kg	10	6/13/2019 9:19:14 PM	45543
Motor Oil Range Organics (MRO)	1000	470		mg/Kg	10	6/13/2019 9:19:14 PM	45543
Surr: DNOP	0	70-130	S	%Rec	10	6/13/2019 9:19:14 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/14/2019 4:52:37 PM	45509
Surr: BFB	93.5	73.8-119		%Rec	1	6/14/2019 4:52:37 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/14/2019 4:52:37 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/14/2019 4:52:37 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/14/2019 4:52:37 PM	45509
Xylenes, Total	ND	0.099		mg/Kg	1	6/14/2019 4:52:37 PM	45509
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	6/14/2019 4:52:37 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 3:45:00 PM
Lab ID: 1906574-009 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	3400	150		mg/Kg	50	6/18/2019 1:00:00 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2019 9:41:38 PM	45543
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2019 9:41:38 PM	45543
Surr: DNOP	107	70-130		%Rec	1	6/13/2019 9:41:38 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2019 5:16:21 PM	45509
Surr: BFB	96.6	73.8-119		%Rec	1	6/14/2019 5:16:21 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/14/2019 5:16:21 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/14/2019 5:16:21 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2019 5:16:21 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2019 5:16:21 PM	45509
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	6/14/2019 5:16:21 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 2.5ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 3:55:00 PM
Lab ID: 1906574-010 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	ND	60		mg/Kg	20	6/17/2019 7:03:23 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/13/2019 10:03:50 PM	45543
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2019 10:03:50 PM	45543
Surr: DNOP	100	70-130		%Rec	1	6/13/2019 10:03:50 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2019 5:40:06 PM	45509
Surr: BFB	94.5	73.8-119		%Rec	1	6/14/2019 5:40:06 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/14/2019 5:40:06 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/14/2019 5:40:06 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2019 5:40:06 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/14/2019 5:40:06 PM	45509
Surr: 4-Bromofluorobenzene	95.9	80-120		%Rec	1	6/14/2019 5:40:06 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-5 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 4:00:00 PM
Lab ID: 1906574-011 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2100	60		mg/Kg	20	6/17/2019 7:15:48 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	13	10		mg/Kg	1	6/13/2019 10:26:13 PM	45543
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/13/2019 10:26:13 PM	45543
Surr: DNOP	752	70-130	S	%Rec	1	6/13/2019 10:26:13 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/14/2019 6:03:46 PM	45509
Surr: BFB	92.9	73.8-119		%Rec	1	6/14/2019 6:03:46 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/14/2019 6:03:46 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/14/2019 6:03:46 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/14/2019 6:03:46 PM	45509
Xylenes, Total	ND	0.10		mg/Kg	1	6/14/2019 6:03:46 PM	45509
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	6/14/2019 6:03:46 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-5 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 4:10:00 PM
Lab ID: 1906574-012 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	3400	150		mg/Kg	50	6/18/2019 1:00:00 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/13/2019 10:48:31 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 10:48:31 PM	45543
Surr: DNOP	85.2	70-130		%Rec	1	6/13/2019 10:48:31 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/14/2019 6:27:23 PM	45509
Surr: BFB	103	73.8-119		%Rec	1	6/14/2019 6:27:23 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/14/2019 6:27:23 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/14/2019 6:27:23 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/14/2019 6:27:23 PM	45509
Xylenes, Total	ND	0.099		mg/Kg	1	6/14/2019 6:27:23 PM	45509
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/14/2019 6:27:23 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906574**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-5 2.5ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4009
Collection Date: 6/7/2019 4:25:00 PM
Lab ID: 1906574-013 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	ND	60		mg/Kg	20	6/17/2019 7:40:37 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/13/2019 11:10:49 PM	45543
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2019 11:10:49 PM	45543
Surr: DNOP	118	70-130		%Rec	1	6/13/2019 11:10:49 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 9:59:37 AM	45528
Surr: BFB	109	73.8-119		%Rec	1	6/13/2019 9:59:37 AM	45528
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 9:59:37 AM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 9:59:37 AM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 9:59:37 AM	45528
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 9:59:37 AM	45528
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/13/2019 9:59:37 AM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 4:30:00 PM
Lab ID: 1906576-001 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	590	60		mg/Kg	20	6/17/2019 8:17:51 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	28000	990		mg/Kg	100	6/17/2019 9:06:49 PM	45543
Motor Oil Range Organics (MRO)	14000	5000		mg/Kg	100	6/17/2019 9:06:49 PM	45543
Surr: DNOP	0	70-130	S	%Rec	100	6/17/2019 9:06:49 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	110	5.0		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Surr: BFB	938	73.8-119	S	%Rec	1	6/13/2019 11:08:13 AM	45528
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Toluene	0.15	0.050		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Ethylbenzene	0.64	0.050		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Xylenes, Total	7.0	0.099		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Surr: 4-Bromofluorobenzene	161	80-120	S	%Rec	1	6/13/2019 11:08:13 AM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 4:35:00 PM
Lab ID: 1906576-002 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	160	60		mg/Kg	20	6/17/2019 8:55:04 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	350	9.4		mg/Kg	1	6/17/2019 9:29:07 PM	45543
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	6/17/2019 9:29:07 PM	45543
Surr: DNOP	167	70-130	S	%Rec	1	6/17/2019 9:29:07 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Surr: BFB	119	73.8-119		%Rec	1	6/13/2019 2:36:12 PM	45528
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	6/13/2019 2:36:12 PM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 4:40:00 PM
Lab ID: 1906576-003 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	1300	60		mg/Kg	20	6/17/2019 9:07:29 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	6200	93		mg/Kg	10	6/17/2019 10:13:26 PM	45543
Motor Oil Range Organics (MRO)	3200	470		mg/Kg	10	6/17/2019 10:13:26 PM	45543
Surr: DNOP	0	70-130	S	%Rec	10	6/17/2019 10:13:26 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Surr: BFB	131	73.8-119	S	%Rec	1	6/13/2019 2:59:28 PM	45528
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	6/13/2019 2:59:28 PM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 4:45:00 PM
Lab ID: 1906576-004 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	160	60		mg/Kg	20	6/17/2019 9:19:54 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	480	9.6		mg/Kg	1	6/17/2019 1:00:13 PM	45572
Motor Oil Range Organics (MRO)	290	48		mg/Kg	1	6/17/2019 1:00:13 PM	45572
Surr: DNOP	198	70-130	S	%Rec	1	6/17/2019 1:00:13 PM	45572
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Surr: BFB	119	73.8-119		%Rec	1	6/13/2019 3:46:08 PM	45528
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	6/13/2019 3:46:08 PM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 Surface
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 4:50:00 PM
Lab ID: 1906576-005 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**smb**
Chloride	250	60		mg/Kg	20	6/17/2019 9:32:18 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	450	9.6		mg/Kg	1	6/17/2019 1:44:22 PM	45572
Motor Oil Range Organics (MRO)	210	48		mg/Kg	1	6/17/2019 1:44:22 PM	45572
Surr: DNOP	138	70-130	S	%Rec	1	6/17/2019 1:44:22 PM	45572
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Surr: BFB	114	73.8-119		%Rec	1	6/13/2019 4:09:25 PM	45528
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/13/2019 4:09:25 PM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906576**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 1ft
Project: Devon Ross Ranch 10 Fed 1 2RP 4434
Collection Date: 6/7/2019 5:00:00 PM
Lab ID: 1906576-006 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	150	60		mg/Kg	20	6/17/2019 9:44:42 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	380	9.9		mg/Kg	1	6/17/2019 10:57:53 PM	45572
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	6/17/2019 10:57:53 PM	45572
Surr: DNOP	166	70-130	S	%Rec	1	6/17/2019 10:57:53 PM	45572
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 5:19:21 PM	45528
Surr: BFB	117	73.8-119		%Rec	1	6/13/2019 5:19:21 PM	45528
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Toluene	ND	0.050		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Ethylbenzene	ND	0.050		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Xylenes, Total	ND	0.10		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	6/14/2019 6:50:57 PM	45528

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 10:15:00 AM
Lab ID: 1906521-001 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	1200	60		mg/Kg	20	6/15/2019 7:21:39 PM	45600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/12/2019 7:43:59 PM	45506
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/12/2019 7:43:59 PM	45506
Surr: DNOP	104	70-130		%Rec	1	6/12/2019 7:43:59 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Surr: BFB	100	73.8-119		%Rec	1	6/12/2019 5:03:28 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 5:03:28 PM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/12/2019 5:03:28 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 10:20:00 AM
Lab ID: 1906521-002 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	710	60		mg/Kg	20	6/15/2019 7:34:03 PM	45600
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/12/2019 8:58:23 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 8:58:23 PM	45506
Surr: DNOP	93.0	70-130		%Rec	1	6/12/2019 8:58:23 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Surr: BFB	99.6	73.8-119		%Rec	1	6/12/2019 6:15:34 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 6:15:34 PM	45503
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	6/12/2019 6:15:34 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 10:35:00 AM
Lab ID: 1906521-003 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	1200	60		mg/Kg	20	6/15/2019 8:48:28 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	6/12/2019 9:22:54 PM	45506
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	6/12/2019 9:22:54 PM	45506
Surr: DNOP	108	70-130		%Rec	1	6/12/2019 9:22:54 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Surr: BFB	97.8	73.8-119		%Rec	1	6/12/2019 7:27:23 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 7:27:23 PM	45503
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/12/2019 7:27:23 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 10:40:00 AM
Lab ID: 1906521-004 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	460	60		mg/Kg	20	6/15/2019 9:00:52 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/12/2019 9:47:38 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 9:47:38 PM	45506
Surr: DNOP	89.9	70-130		%Rec	1	6/12/2019 9:47:38 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Surr: BFB	101	73.8-119		%Rec	1	6/12/2019 7:51:08 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 7:51:08 PM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/12/2019 7:51:08 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 10:55:00 AM
Lab ID: 1906521-005 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	170	60		mg/Kg	20	6/15/2019 9:13:16 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	11	10		mg/Kg	1	6/12/2019 10:12:21 PM	45506
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/12/2019 10:12:21 PM	45506
Surr: DNOP	134	70-130	S	%Rec	1	6/12/2019 10:12:21 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Surr: BFB	96.4	73.8-119		%Rec	1	6/12/2019 8:14:49 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2019 8:14:49 PM	45503
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	6/12/2019 8:14:49 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-3 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:10:00 AM
Lab ID: 1906521-006 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	160	60		mg/Kg	20	6/15/2019 9:25:41 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	6/12/2019 10:37:12 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/12/2019 10:37:12 PM	45506
Surr: DNOP	86.8	70-130		%Rec	1	6/12/2019 10:37:12 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Surr: BFB	97.4	73.8-119		%Rec	1	6/12/2019 8:38:31 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Xylenes, Total	ND	0.096		mg/Kg	1	6/12/2019 8:38:31 PM	45503
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	6/12/2019 8:38:31 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:15:00 AM
Lab ID: 1906521-007 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4300	150		mg/Kg	50	6/17/2019 4:46:53 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/13/2019 9:29:08 AM	45506
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2019 9:29:08 AM	45506
Surr: DNOP	95.2	70-130		%Rec	1	6/13/2019 9:29:08 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Surr: BFB	96.1	73.8-119		%Rec	1	6/12/2019 9:02:09 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 9:02:09 PM	45503
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	6/12/2019 9:02:09 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-4 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:25:00 AM
Lab ID: 1906521-008 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	130	60		mg/Kg	20	6/15/2019 9:50:30 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/13/2019 9:53:06 AM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2019 9:53:06 AM	45506
Surr: DNOP	81.0	70-130		%Rec	1	6/13/2019 9:53:06 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Surr: BFB	95.5	73.8-119		%Rec	1	6/12/2019 9:25:46 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 9:25:46 PM	45503
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	6/12/2019 9:25:46 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-5 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:30:00 AM
Lab ID: 1906521-009 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2200	59		mg/Kg	20	6/15/2019 10:27:42 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	3100	100		mg/Kg	10	6/14/2019 9:54:13 AM	45506
Motor Oil Range Organics (MRO)	2700	500		mg/Kg	10	6/14/2019 9:54:13 AM	45506
Surr: DNOP	0	70-130	S	%Rec	10	6/14/2019 9:54:13 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Surr: BFB	113	73.8-119		%Rec	1	6/12/2019 9:49:23 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Toluene	ND	0.048		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Xylenes, Total	ND	0.096		mg/Kg	1	6/12/2019 9:49:23 PM	45503
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	6/12/2019 9:49:23 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-5 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:45:00 AM
Lab ID: 1906521-010 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	110	61		mg/Kg	20	6/15/2019 11:04:56 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	25	9.2		mg/Kg	1	6/14/2019 8:41:57 AM	45506
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/14/2019 8:41:57 AM	45506
Surr: DNOP	77.2	70-130		%Rec	1	6/14/2019 8:41:57 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Surr: BFB	95.7	73.8-119		%Rec	1	6/12/2019 10:13:28 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 10:13:28 PM	45503
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	6/12/2019 10:13:28 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-6 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 11:50:00 AM
Lab ID: 1906521-011 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2800	150		mg/Kg	50	6/17/2019 4:59:18 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	2400	95		mg/Kg	10	6/14/2019 11:07:25 AM	45506
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	6/14/2019 11:07:25 AM	45506
Surr: DNOP	0	70-130	S	%Rec	10	6/14/2019 11:07:25 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Surr: BFB	108	73.8-119		%Rec	1	6/12/2019 11:02:17 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 11:02:17 PM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/12/2019 11:02:17 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-6 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:10:00 PM
Lab ID: 1906521-012 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	99	61		mg/Kg	20	6/15/2019 11:29:44 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/14/2019 9:05:55 AM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/14/2019 9:05:55 AM	45506
Surr: DNOP	103	70-130		%Rec	1	6/14/2019 9:05:55 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Surr: BFB	110	73.8-119		%Rec	1	6/12/2019 11:26:53 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Toluene	ND	0.050		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2019 11:26:53 PM	45503
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	6/12/2019 11:26:53 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-7 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:15:00 PM
Lab ID: 1906521-013 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1300	59		mg/Kg	20	6/15/2019 11:42:09 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	15	9.6		mg/Kg	1	6/13/2019 12:41:40 PM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 12:41:40 PM	45506
Surr: DNOP	96.1	70-130		%Rec	1	6/13/2019 12:41:40 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Surr: BFB	120	73.8-119	S	%Rec	1	6/12/2019 11:51:32 PM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Toluene	ND	0.049		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 11:51:32 PM	45503
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	1	6/12/2019 11:51:32 PM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-7 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:25:00 PM
Lab ID: 1906521-014 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	5100	300		mg/Kg	100	6/17/2019 5:11:43 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	80	10		mg/Kg	1	6/13/2019 1:05:49 PM	45506
Motor Oil Range Organics (MRO)	72	50		mg/Kg	1	6/13/2019 1:05:49 PM	45506
Surr: DNOP	104	70-130		%Rec	1	6/13/2019 1:05:49 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 12:16:05 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2019 12:16:05 AM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/13/2019 12:16:05 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-8 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:30:00 PM
Lab ID: 1906521-015 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4700	150		mg/Kg	50	6/17/2019 5:48:57 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	110	9.6		mg/Kg	1	6/13/2019 1:29:58 PM	45506
Motor Oil Range Organics (MRO)	92	48		mg/Kg	1	6/13/2019 1:29:58 PM	45506
Surr: DNOP	105	70-130		%Rec	1	6/13/2019 1:29:58 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Surr: BFB	106	73.8-119		%Rec	1	6/13/2019 12:40:43 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 12:40:43 AM	45503
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/13/2019 12:40:43 AM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-8 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:45:00 PM
Lab ID: 1906521-016 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	6100	300		mg/Kg	100	6/17/2019 6:01:21 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	77	9.9		mg/Kg	1	6/13/2019 1:54:11 PM	45506
Motor Oil Range Organics (MRO)	70	49		mg/Kg	1	6/13/2019 1:54:11 PM	45506
Surr: DNOP	109	70-130		%Rec	1	6/13/2019 1:54:11 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 1:05:20 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 1:05:20 AM	45503
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/13/2019 1:05:20 AM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-9 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 12:50:00 PM
Lab ID: 1906521-017 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2300	61		mg/Kg	20	6/16/2019 12:31:48 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	160	9.3		mg/Kg	1	6/13/2019 2:18:25 PM	45506
Motor Oil Range Organics (MRO)	170	47		mg/Kg	1	6/13/2019 2:18:25 PM	45506
Surr: DNOP	110	70-130		%Rec	1	6/13/2019 2:18:25 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Surr: BFB	104	73.8-119		%Rec	1	6/13/2019 1:29:56 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 1:29:56 AM	45503
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/13/2019 1:29:56 AM	45503

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

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 Quanitative 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

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-9 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:10:00 PM
Lab ID: 1906521-018 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1000	60		mg/Kg	20	6/16/2019 12:44:13 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	22	9.9		mg/Kg	1	6/13/2019 2:42:41 PM	45506
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2019 2:42:41 PM	45506
Surr: DNOP	96.0	70-130		%Rec	1	6/13/2019 2:42:41 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Surr: BFB	108	73.8-119		%Rec	1	6/13/2019 1:54:34 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Toluene	ND	0.049		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 1:54:34 AM	45503
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/13/2019 1:54:34 AM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-10 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:15:00 PM
Lab ID: 1906521-019 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	700	60		mg/Kg	20	6/16/2019 12:56:38 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	940	9.5		mg/Kg	1	6/13/2019 3:07:00 PM	45506
Motor Oil Range Organics (MRO)	750	48		mg/Kg	1	6/13/2019 3:07:00 PM	45506
Surr: DNOP	137	70-130	S	%Rec	1	6/13/2019 3:07:00 PM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Surr: BFB	105	73.8-119		%Rec	1	6/13/2019 2:18:56 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:18:56 AM	45503
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/13/2019 2:18:56 AM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-10 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:25:00 PM
Lab ID: 1906521-020 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1500	59		mg/Kg	20	6/16/2019 1:33:52 AM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	6/14/2019 9:29:59 AM	45506
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/14/2019 9:29:59 AM	45506
Surr: DNOP	102	70-130		%Rec	1	6/14/2019 9:29:59 AM	45506
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Surr: BFB	107	73.8-119		%Rec	1	6/13/2019 2:43:27 AM	45503
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:43:27 AM	45503
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/13/2019 2:43:27 AM	45503

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-11 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:30:00 PM
Lab ID: 1906521-021 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	4700	150		mg/Kg	50	6/17/2019 6:13:45 PM	45603
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	56	9.8		mg/Kg	1	6/13/2019 3:22:22 PM	45543
Motor Oil Range Organics (MRO)	75	49		mg/Kg	1	6/13/2019 3:22:22 PM	45543
Surr: DNOP	118	70-130		%Rec	1	6/13/2019 3:22:22 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Surr: BFB	109	73.8-119		%Rec	1	6/12/2019 6:37:26 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2019 6:37:26 PM	45509
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/12/2019 6:37:26 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-11 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:40:00 PM
Lab ID: 1906521-022 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	1500	60		mg/Kg	20	6/17/2019 1:03:34 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	28	9.6		mg/Kg	1	6/13/2019 5:13:42 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:13:42 PM	45543
Surr: DNOP	107	70-130		%Rec	1	6/13/2019 5:13:42 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Surr: BFB	107	73.8-119		%Rec	1	6/12/2019 7:46:20 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 7:46:20 PM	45509
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	6/12/2019 7:46:20 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-12 Surface
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:45:00 PM
Lab ID: 1906521-023 **Matrix:** SOIL
Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	2100	60		mg/Kg	20	6/17/2019 1:40:46 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2019 5:35:51 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:35:51 PM	45543
Surr: DNOP	110	70-130		%Rec	1	6/13/2019 5:35:51 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Surr: BFB	106	73.8-119		%Rec	1	6/12/2019 8:54:55 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Toluene	ND	0.049		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2019 8:54:55 PM	45509
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	6/12/2019 8:54:55 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906521**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-12 1ft
Project: Devon Ross Ranch 10 Fed 1 Tank Pad
Collection Date: 6/7/2019 1:55:00 PM
Lab ID: 1906521-024 **Matrix:** SOIL **Received Date:** 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	1500	60		mg/Kg	20	6/17/2019 1:53:11 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	6/13/2019 5:58:17 PM	45543
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2019 5:58:17 PM	45543
Surr: DNOP	127	70-130		%Rec	1	6/13/2019 5:58:17 PM	45543
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Surr: BFB	107	73.8-119		%Rec	1	6/12/2019 9:17:44 PM	45509
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Toluene	ND	0.050		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Ethylbenzene	ND	0.050		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Xylenes, Total	ND	0.10		mg/Kg	1	6/12/2019 9:17:44 PM	45509
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	6/12/2019 9:17:44 PM	45509

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

ADDENDUM

Location name: ROSS RANCH

OCD Spill Numbers: 2RP-1136 (nMBL1215052644)

2RP-4009 (nAB1633633401)

2RP-4434 (nAB1728628311)

2RP-5437 (nAB1915042001)

From: Dale Woodall, Devon Energy

Date: 12/14/2022

Since this report for the above referenced spill(s) was written, there has been an update in the status of the PODs for the location.

A review of New Mexico Office of the State Engineers (OSE) online water well database (New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose_pod_locations/).

One pod location is 0.75 miles northeast and less than 25 years old.

C-04637 POD 1 (installed in 2022) did not encounter groundwater and is 0.75 miles of the location

The spill was remediated to criteria for DTW of 51-100 feet bgs.

Boring log of the well C-4637 POD1 is attached.

C-04637- POD1 (51 feet) = 0.75 miles from location

FIGURE 1: NM OSE POD LOCATIONS	
ROSS RANCH	
32.0593872,-103.7596054	
drawn by: RDW	Date: 12/2022

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DIT AUG 8 2022 PM 1:20

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1 (TW-1)	N/A	C-4637

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Devon Energy	575-748-1838

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6488 7 Rivers Hwy	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	3	57.21	N
	LONGITUDE	103	44	57.0	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

SE SE SW Sec.2 T26S R31S NMPM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
6/15/2022	6/15/2022	Temporary Well	±51	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DATE STATIC MEASURED: 6/15/2022,7/19/2022

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	55	±6.5	Boring-HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-04637-POD1	POD NO. 1	TRN NO. 726494	
LOCATION 26S.31E.02.4.4.3.		WELL TAG ID NO. ———	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	39	39	Sand, Medium/ Fine grained, poorly graded, Tan brown	Y ✓ N	
39	55	16	Sand, Medium/ Fine grained, poorly graded, Reddish Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.

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PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 8/4/2022

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-04637	POD NO. 1	TRN NO. 726494	
LOCATION 26S.31E.02.4.4.3		WELL TAG ID NO. —	PAGE 2 OF 2

Atkins ENGINEERING ASSOCIATES INC.
2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

August 4, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4637 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4637 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

OSE DII AUG 8 2022 AM10:13

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

QUESTIONS

Action 364739

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAB1915042001**
Incident Name	**NAB1915042001 ROSS RANCH 10 FEDERAL #001 @ 30-015-29605**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-29605] ROSS RANCH 10 FEDERAL #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROSS RANCH 10 FEDERAL #001
Date Release Discovered	05/13/2019
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: Lightning | Water Tank | Produced Water | Released: 640 BBL | Recovered: 640 BBL | Lost: 0 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 (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
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@dvn.com Date: 07/17/2024

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QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	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	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination 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)	2400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	06/17/2019
On what date will (or did) the final sampling or liner inspection occur	06/19/2024
On what date will (or was) the remediation complete(d)	06/24/2019
What is the estimated surface area (in square feet) that will be reclaimed	100
What is the estimated volume (in cubic yards) that will be reclaimed	15
What is the estimated surface area (in square feet) that will be remediated	100
What is the estimated volume (in cubic yards) that will be remediated	15
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 (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	*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)	Yes
Other Non-listed Remedial Process. Please specify	remediation activities were conducted in 2019. this report is a post remediation, post reconstruction of the containment assessment
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 07/17/2024

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

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Removal of containment structure for all storage tanks and associated piping would leave storage tanks unprotected.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	100
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	15
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-015-29605 ROSS RANCH 10 FEDERAL #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 07/17/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	*{Unavailable.}*

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 364739

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	Action Number: 364739
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Deferral approved. Deferral is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	7/19/2024