

Volume calculator

There was no volume calculator prepared when the spill occurred.

**Devon Energy
Ross Ranch 10 Fed #001**

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

Incident ID: nMLB1215052644 (2RP-1136)

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.

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 lined containment; Devon personnel dispatched a vacuum truck that recovered 100 BBL of fluid. Mr. Bratcher with the NMOCD requested a final C-141 in his handwritten comments when he approved the release notification and corrective action form on May 29, 2012 (refer to the initial C-141 dated 04/25/2012 attached to this letter as document 7).

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

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 (GRO+DRO+MRO)	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	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: nMLB1215052644 (Remediation Permit Number 2RP-1136)

Incident 2RP-1136 occurred April 25, 2012. It is reported in the initial C-141, that 100 bbls was released into the lined containment, and 100 bbls were recovered from the containment with a vacuum truck. The release remained entirely in the lined containment area of the battery and no fluid was released to the environment.

The April 12, 2012 release was inside the containment and fully recovered as per the filed C-141. No further action was taken by Devon on this release. On September 19, 2019, SESI received an email from Amanda Davis (copy in the report) stating that "Devon did not keep good spill documentation back then, so we do not have pictures or maps of the area."

SESI was, at that time, working on the same battery that had the spill in 2012. The battery had destroyed by lightning and there was nothing to assessed. SESI received this C-141 from Devon Energy while working on a subsequent release at the same battery location that occurred inside the lined containment as well. The last time that SESI submitted a closure request for this spill, according to the C-141 all release liquids were recovered from lined containment and no liquid was released to the environment. Since Devon took no further action over the 7-year period and could not provide photographs or details of the release, SESI is at a loss to provide any of NMOC requested information when it does not exist. That said, historical aerial photographs of the location, including the newly constructed containment, are provided in this report. These photos denote that the containment was steel walled. The 5/2011 photograph may have a lined floor.

On June 7, 2019 SESI was onsite performing samples for Incident # nAB1915042001 2RP-5457 this release occurred inside the same lined containment as nMLB1215052644 2RP-1136, at this time the containment had been dismantled and moved. Sampling was performed in the area just below where the containment was located. Twelve (12) samples were collected both on the surface and at one foot bgs.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI 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
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 foot bgs. Both AH-5 and AH-6 1 foot sample results indicate the TPH levels are both below Table 1 Standards.

On September 07, 2023 SESI was onsite performing confirmation samples from the north side of the lined containment for Incident # nAB1915042001 2RP-5457 this release occurred inside the same lined containment as nMLB1215052644 2RP-1136. Four (4) confirmation samples were collected both on the surface, at one- and two-foot bgs.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI 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	ND	ND	ND	ND	ND	ND	160	220
SP1-1 ft	ND	ND	ND	ND	ND	ND	ND	ND
SP1-2 ft	ND	ND	ND	ND	ND	ND	ND	ND
SP2-Surface	230	ND	ND	ND	ND	ND	ND	ND
SP2-1 ft	ND	ND	ND	ND	ND	ND	ND	ND
SP2-2 ft	74	ND	ND	ND	ND	ND	ND	ND
SP3-Surface	1100	ND	ND	ND	ND	ND	26	71
SP3-1 ft	ND	ND	ND	ND	ND	ND	ND	ND
SP3-2 ft	ND	ND	ND	ND	ND	ND	ND	ND
SP4-Surface	320	ND	ND	ND	ND	ND	ND	ND
SP4-1 ft	520	ND	ND	ND	ND	ND	ND	ND
SP4-2 ft	190	ND	ND	ND	ND	ND	14	49

Confirmation 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 (CI 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

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)
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

This release occurred in April 2012. 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: Historical Location Maps
 Document 2: OSE Information
 Document 3: NMOCD Oil and Gas Map
 Document 4: BLM Cave Karst Map
 Document 5: FEMA Floodplain Map
 Document 6: Devon Correspondence
 Document 7: C-141 final

Devon

Ross Ranch

nMBL1215052644

2RP-1136

Legend

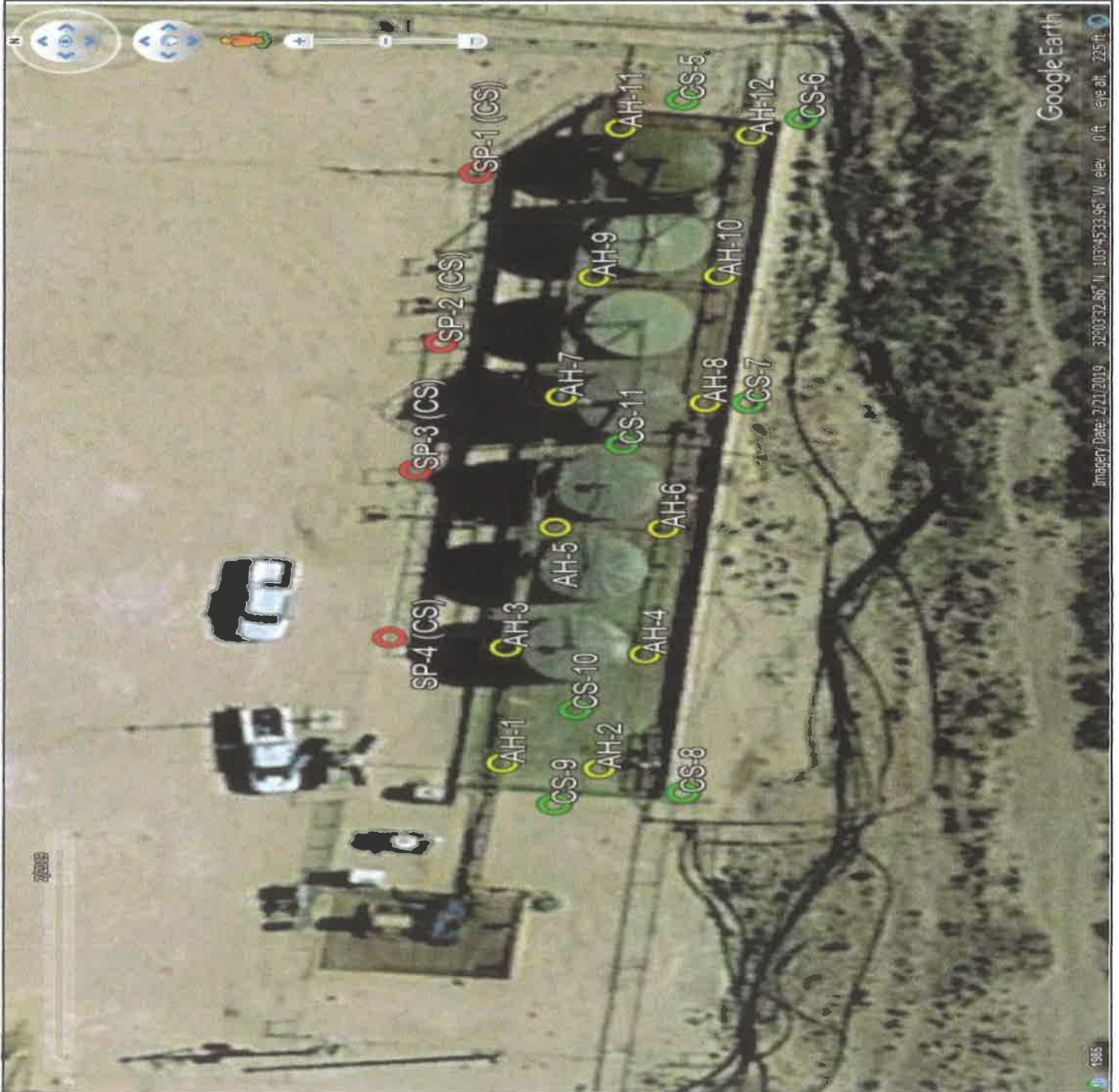
Yellow – 06/07/19 - AH-1 to AH-12

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



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

WCD District Offices

New Mexico Oil Conservation Division

0 0.07 0.15 0.3 0.6 km

0 0.07 0.15 0.3 0.6 mi

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

http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d0172306164de29f62b9f835ca75; New Mexico Oil Conservation Division



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	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	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

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

6/7/19 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

PG 27



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2024 07 17 15:45

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04700			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 3	SECONDS 48.97 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	45	47.89 W	* 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. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 4/17/23	DRILLING ENDED 4/17/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 4/25/23		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM 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 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

	DEPTH (feet bgl)		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)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	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		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:						
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:						
			Jackie D. Atkins		4/26/23		
	SIGNATURE OF DRILLER / PRINT SIGNED 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):

- 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:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("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






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

Final Audit Report

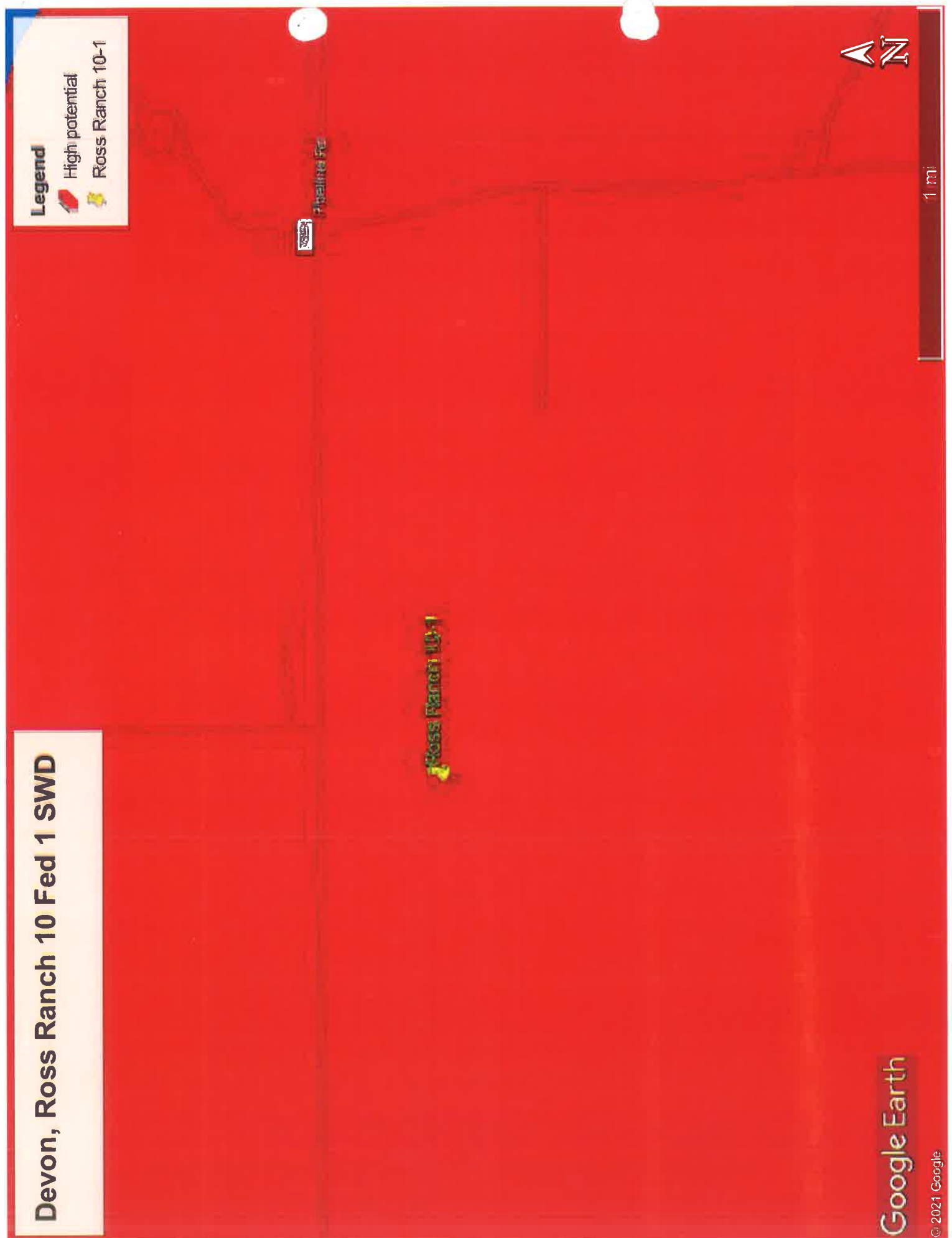
2023-04-26

Created:	2023-04-26
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA7kP8N6FF5p7DLtbacrXsBro4EK6_j7in

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

DSE 27 2023 PM 1:45



National Flood Hazard Layer FIRMette



Legend

SEE FIRM 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 Levees. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard Zone D
- Effective LOMRS
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

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

OTHER FEATURES

- 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



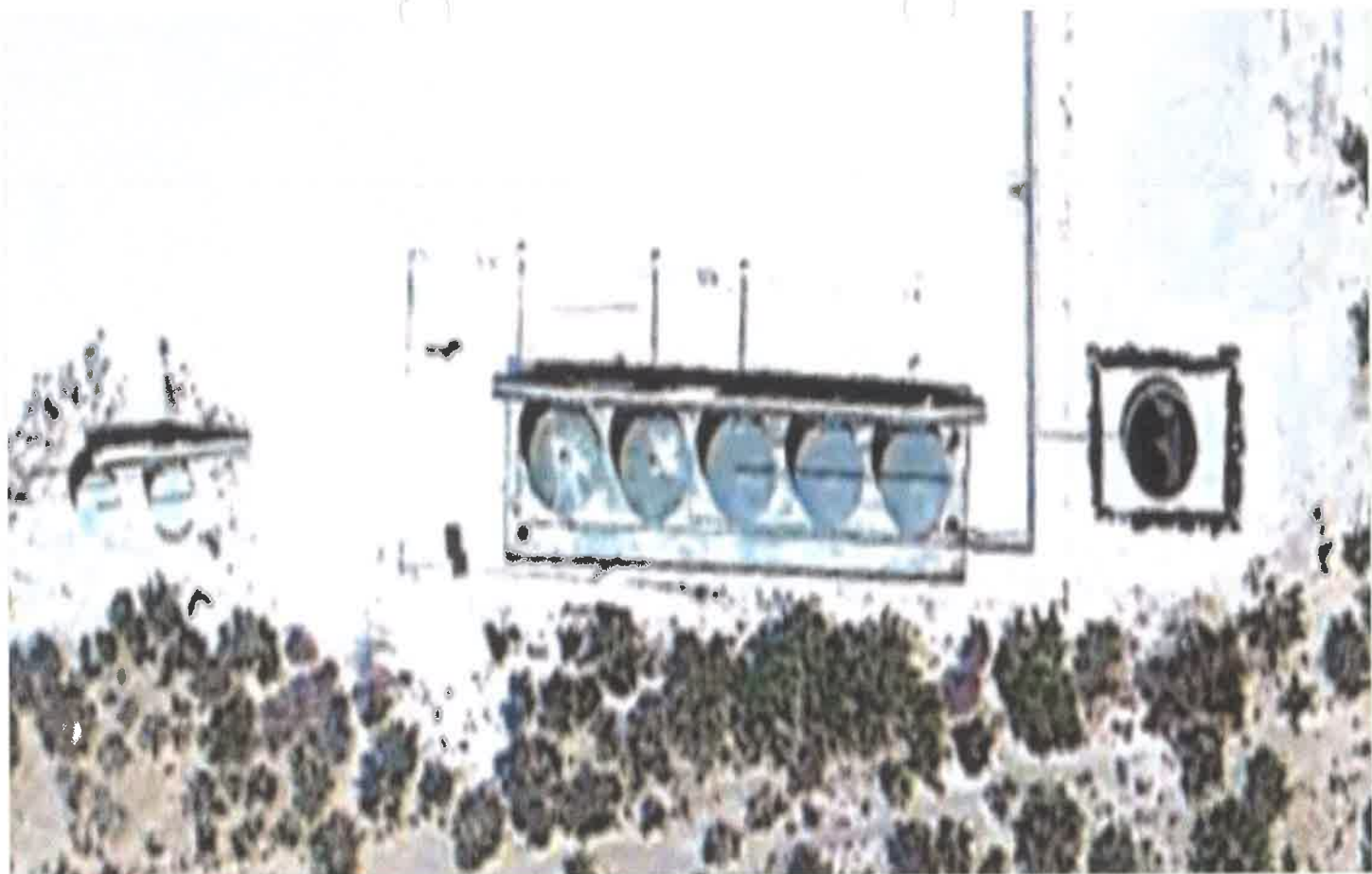
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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.





Aerial photograph of location dated 5/2011, source Google Earth



Aerial photograph of location dated 4/2013, source Google Earth



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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

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

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AII-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
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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 Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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Analytical Report

Lab Order 1906521

Date Reported: 6/18/2019

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

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

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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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

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Chain-of-Custody Record		Turn-Around Time: 5 Day Rush <input type="checkbox"/> Standard <input type="checkbox"/> Rush
Client: <i>Speddy & Grubbsworth</i>	Project Name: <i>Austin</i>	<i>Tank</i>
<i>Solutions</i>	<i>Ross Ranch #10 Fed</i>	<i>PAO</i>
Mailing Address: <i>703 E. Clinton</i>	Project #:	<i>NEW-19-010</i>
<i>666 N.W. 88240</i>		
Phone #: <i>575-397-0510</i>		

email or Fax#: _____

QA/QC Package: _____

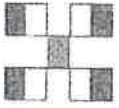
☒ Standard ☐ Level 4 (Full Validation)

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

Date	Time	Matrix	Sample Name
06-07	1015	S	AH-1 Surface
	1020	S	AH-1 1ft
	1035	S	AH-2 Surface
	1040	S	AH-2 1ft
	1055	S	AH-3 Surface
	1110	S	AH-3 1ft
	1115	S	AH-4 Surface
	1125	S	AH-4 1ft
	1130	S	AH-5 Surface
	1145	S	AH-5 1ft
	1150	S	AH-6 Surface
06-07	1210	S	AH-6 1ft

Date:	10/19	Time:	1900	Relinquished by:	<i>[Signature]</i>
Date:	06/10	Time:	0800	Relinquished by:	<i>[Signature]</i>

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX / MTBE / TMB's (8021)	X	
TPH:8015D(GRO / DRO / MRO)	X	
8081 Pesticides/8082 PCB's		
EDB (Method 504.1)		
PAHs by 8310 or 8270SIMS		
RCRA 8 Metals		
Cl, F, Br, NO ₂ , PO ₄ , SO ₄		
8260 (VOA)		
8270 (Semi-VOA)		
Total Coliform (Present/Absent)	X	OK

Remarks:

Received by: <i>[Signature]</i>	Via:	Date	Time
		6/10/19	0800

Received by: <i>[Signature]</i>	Via:	Date	Time
		6/11/19	0905



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,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

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

Client Sample ID: SP1-Surface

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 2:15:00 PM

Lab ID: 2309525-001

Matrix: SOIL

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.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	II	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of 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

Client Sample ID: SP1-1ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 2:20:00 PM

Lab ID: 2309525-002

Matrix: SOIL

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.	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 Quantitative 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

Client Sample ID: SP1-2ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 2:45:00 PM

Lab ID: 2309525-003

Matrix: SOIL

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	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 Quantitative 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

Client Sample ID: SP2-Surface

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 1:30:00 PM

Lab ID: 2309525-004

Matrix: SOIL

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 Quantitative 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

Client Sample ID: SP2-1ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 1:45:00 PM

Lab ID: 2309525-005

Matrix: SOIL

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 Quantitative 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

Client Sample ID: SP2-2ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/7/2023 1:55:00 PM

Lab ID: 2309525-006

Matrix: SOIL

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 Quantitative 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

Client Sample ID: SP3-Surface

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 1:40:00 PM

Lab ID: 2309525-007

Matrix: SOIL

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	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 Quantitative 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

Client Sample ID: SP3-1ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 1:49:00 PM

Lab ID: 2309525-008

Matrix: SOIL

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.	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 Quantitative 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

Client Sample ID: SP3-2ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 2:00:00 PM

Lab ID: 2309525-009

Matrix: SOIL

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.	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 Quantitative 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

Client Sample ID: SP4-Surface

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 1:00:00 PM

Lab ID: 2309525-010

Matrix: SOIL

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 Quantitative 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

Client Sample ID: SP4-1ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 1:15:00 PM

Lab ID: 2309525-011

Matrix: SOIL

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 Quantitative 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

Client Sample ID: SP4-2ft

Project: Ross Ranch DEV 19 008

Collection Date: 9/6/2023 1:30:00 PM

Lab ID: 2309525-012

Matrix: SOIL

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 Quantitative 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.	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 Quantitative 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-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 Quantitative 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 Quantitative 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-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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of 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-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.	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 Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	



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: *ma 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 ☒
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: *SCM 9/12/23*
(<2 or >12 unless noted)
Adjusted? ☐
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		



Environment Testing

1

5

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.

Page 1 of 40



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Eurofins Albuquerque

Job Notes

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

Authorization



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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

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Definitions/Glossary

Client: Safety & Environmental Solutions

Job ID: 885-6687-1

Project/Site: Ross Ranch 10 Fed 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.

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS5-Surface

Lab Sample ID: 885-6687-1

Date Collected: 06/19/24 09:30

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS5-1ft

Lab Sample ID: 885-6687-2

Date Collected: 06/19/24 09:45

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS6-Surface

Lab Sample ID: 885-6687-3

Date Collected: 06/19/24 10:37

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

Client: Safety & Environmental Solutions

Job ID: 885-6687-1

Project/Site: Ross Ranch 10 Fed 1

Client Sample ID: CS6-1ft

Lab Sample ID: 885-6687-4

Date Collected: 06/19/24 11:06

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS7-Surface

Lab Sample ID: 885-6687-5

Date Collected: 06/19/24 10:59

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

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

Eurofins Albuquerque

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS8-1ft

Lab Sample ID: 885-6687-8

Date Collected: 06/19/24 11:33

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS8-2ft

Lab Sample ID: 885-6687-9

Date Collected: 06/19/24 11:55

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS8-4ft

Lab Sample ID: 885-6687-11

Date Collected: 06/19/24 13:00

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS9-Surface

Lab Sample ID: 885-6687-12

Date Collected: 06/19/24 11:28

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS10-Surface

Lab Sample ID: 885-6687-14

Date Collected: 06/19/24 13:20

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS10-1ft

Lab Sample ID: 885-6687-15

Date Collected: 06/19/24 13:45

Matrix: Solid

Date Received: 06/21/24 09:00

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

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Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS11-Surface

Lab Sample ID: 885-6687-16

Date Collected: 06/19/24 14:00

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

Client Sample Results

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

Job ID: 885-6687-1

Client Sample ID: CS11-1ft

Lab Sample ID: 885-6687-17

Date Collected: 06/19/24 14:30

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

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

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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

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		48 - 145

Prepared	Analyzed	Dil Fac
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

	LCS	LCS	
Surrogate	%Recovery	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

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		48 - 145

Prepared	Analyzed	Dil Fac
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

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

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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

Eurofins Albuquerque

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

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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

Eurofins Albuquerque

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	

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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	

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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	

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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

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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

Eurofins Albuquerque

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

Eurofins Albuquerque

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

Eurofins Albuquerque

Lab Chronicle

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

Job ID: 885-6687-1

Client Sample ID: CS10-Surface

Lab Sample ID: 885-6687-14

Date Collected: 06/19/24 13:20

Matrix: Solid

Date Received: 06/21/24 09:00

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

Lab Sample ID: 885-6687-15

Date Collected: 06/19/24 13:45

Matrix: Solid

Date Received: 06/21/24 09:00

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

Lab Sample ID: 885-6687-16

Date Collected: 06/19/24 14:00

Matrix: Solid

Date Received: 06/21/24 09:00

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

Lab Sample ID: 885-6687-17

Date Collected: 06/19/24 14:30

Matrix: Solid

Date Received: 06/21/24 09:00

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

Eurofins Albuquerque

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	06/28/24 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

Job ID: 885-6687-1

Project/Site: Ross Ranch 10 Fed 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

Eurofins Albuquerque

Chain-of-Custody Record

Client: Safety Environmental Solutions

Mailing Address: 705 N Clinton Hwy, NM 88240

Phone #: (575) 597-0510

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

QA/QC Package: rallen@sesi-nm.com

Standard Office of Level 4 (Full Validation)

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

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Boss Ranch 10 Feb 1

Project #:

Dev-19-008

Project Manager:

Allen, Rob

Sampler: Roberto, Martinez

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 70.5 to 72.4 °C

Container Type and #

402 SAR-1 Ice

Preservative Type

Ice

HEAL No.

1

2

3

4

5

6

7

8

9

10

11

12

Date Time

6/20/24 2:10 PM

Date Time

7/9/2024

Relinquished by

Fabian Carter

Relinquished by

Via

Via

Received by

CD

Via

Via

Date Time

6/20 2:12 PM

Date Time

6/20/24 9:00

Remarks: Send the results to SESI email list

Remarks: Send the results to SESI email list

Remarks: Send the results to SESI email list

Remarks: Send the results to SESI email list

Remarks: Send the results to SESI email list

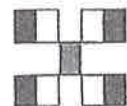
Remarks: Send the results to SESI email list

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Remarks: Send the results to SESI email list



HALL ENVIRONMENTAL ANALYSIS LABORATORY

885-6687 COC

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (8021)

TPH: 8015D (GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Login Sample Receipt Checklist

Client: Safety & Environmental Solutions

Job Number: 885-6687-1

Login Number: 6687

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

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	

SESI NM

From: Davis, Amanda
Sent: Thursday, September 19, 2019 11:09 AM
To: office2@sesi-nm.com
Cc: DeHoyos, Kendra; Mathews, Wesley
Subject: FW: [EXTERNAL] Devon Ross Ranch 10 Federal #001
Attachments: Initial C-141.pdf

Rebecca,

Thank you for pulling this information together. I have attached the C-141 2RP-1136 4/25/12. Unfortunately, Devon did not keep good spill documentation back then so we do not have pictured or a map of the area.

Amanda Trujillo Davis
Environmental Representative

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210
(575) 748-0176 Direct
(505) 350-1336 Mobile



Devon - Internal

From: DeHoyos, Kendra
Sent: Thursday, September 19, 2019 8:48 AM
To: Mathews, Wesley <Wesley.Mathews@dvn.com>; Davis, Amanda <Amanda.Davis@dvn.com>
Subject: RE: [EXTERNAL] Devon Ross Ranch 10 Federal #001

This is what I found on the OCD for the spill on this date.



Equipment Failure

Tank (Any)

Produced Water

0

NMLB1215052644 2012 MAJOR A SWS @ 30-015-29605

Action: Referred to Environmental Inspector

Notified: Industry Rep

Event Dates

Date of Discovery: 04/25/2012

On

Characterization Report Received:

Cl

Notes

Date	Detail
05/29/2012	2RP-1136 C-141 rec'd 5/1/12 for release on 4/25/12. Reported 100 bbls PW released w/100 bbls recovered. Source listed as "The Pump on the sending a large volume of fluid to the gun barrel at the Ross Ranch SWD, causing it to overflow 100bbls of produced water into the lined contain on location was overflowing and spraying fluid. It was discovered that the dump on free water knockout at the Snapping 2 State #7 had hung up the gun barrel, causing the tank to run over releasing 100bbls of produced water in a lined containment. The operator notified the foreman and containment."

Spills

Cause	Source	Product Spilled	
Overflow - Tank, Pit, Etc.	Separator	Produced Water	0

Kendra DeHoyos

EHS Associate

Devon Energy Corporation

PO Box 250

Artesia, NM 88211



Devon - Internal

**Devon Energy
Ross Ranch 10 Fed #001**

**Closure Report
Section 10, T26S, R31E
Lea County, New Mexico**

Incident ID: nMLB1215052644 (2RP-1136)

June 18, 2020

Amended



**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.

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 NMOCDC 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 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
	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
51 feet-100 feet	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
	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
>100 feet	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
	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 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: nMLB1215052644 (Remediation Permit Number 2RP-1136)

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. Mr. Bratcher with the NMOCD requested a final C-141. The final C-141 for this remediation permit will be included with this report.

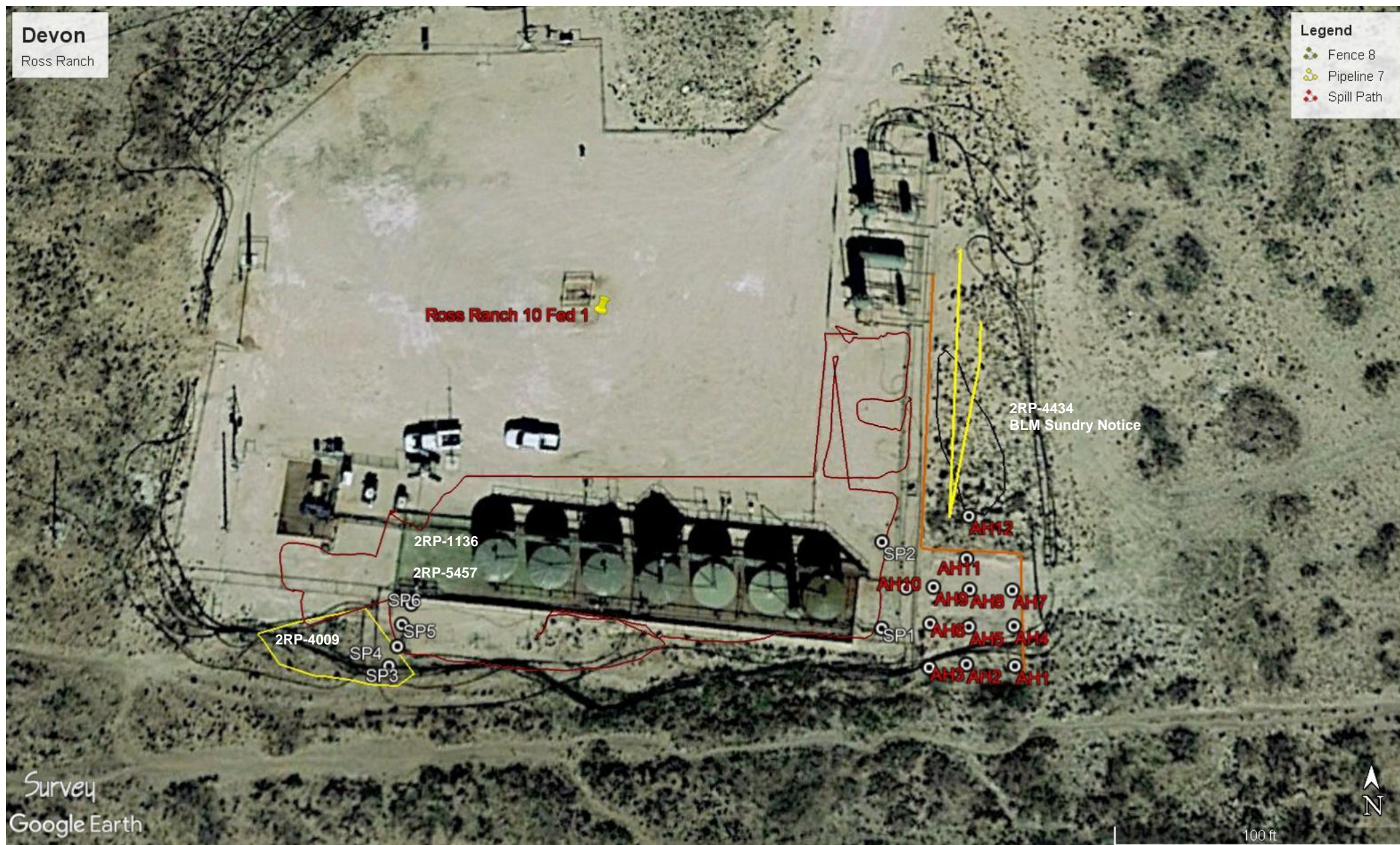
Since incidents 2RP-1136 and 2RP-5457, which occurred in 2012 and 2019, respectively, occurred at the same tank battery location. SESI was unable to obtain samples from the 2RP-1136 because the entire tank battery had been reconstructed prior to the 2019 2RP-5457 incident. Details regarding the incident 2RP-5457 sampling are provided in the closure report for incident 2RP-5457.

Conclusion

SESI performed no remedial actions for this release because of the second event that caused the removal and replacement of the tank battery. Please accept the final C-141 as closure for this incident.

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 compromised areas and repairs
Document 7: Lab Analysis
Document 8: C-141 initial, final



Devon Energy

Ross Ranch 10 Federal #1

Incident ID: nMLB1215052644 (2RP-1136)

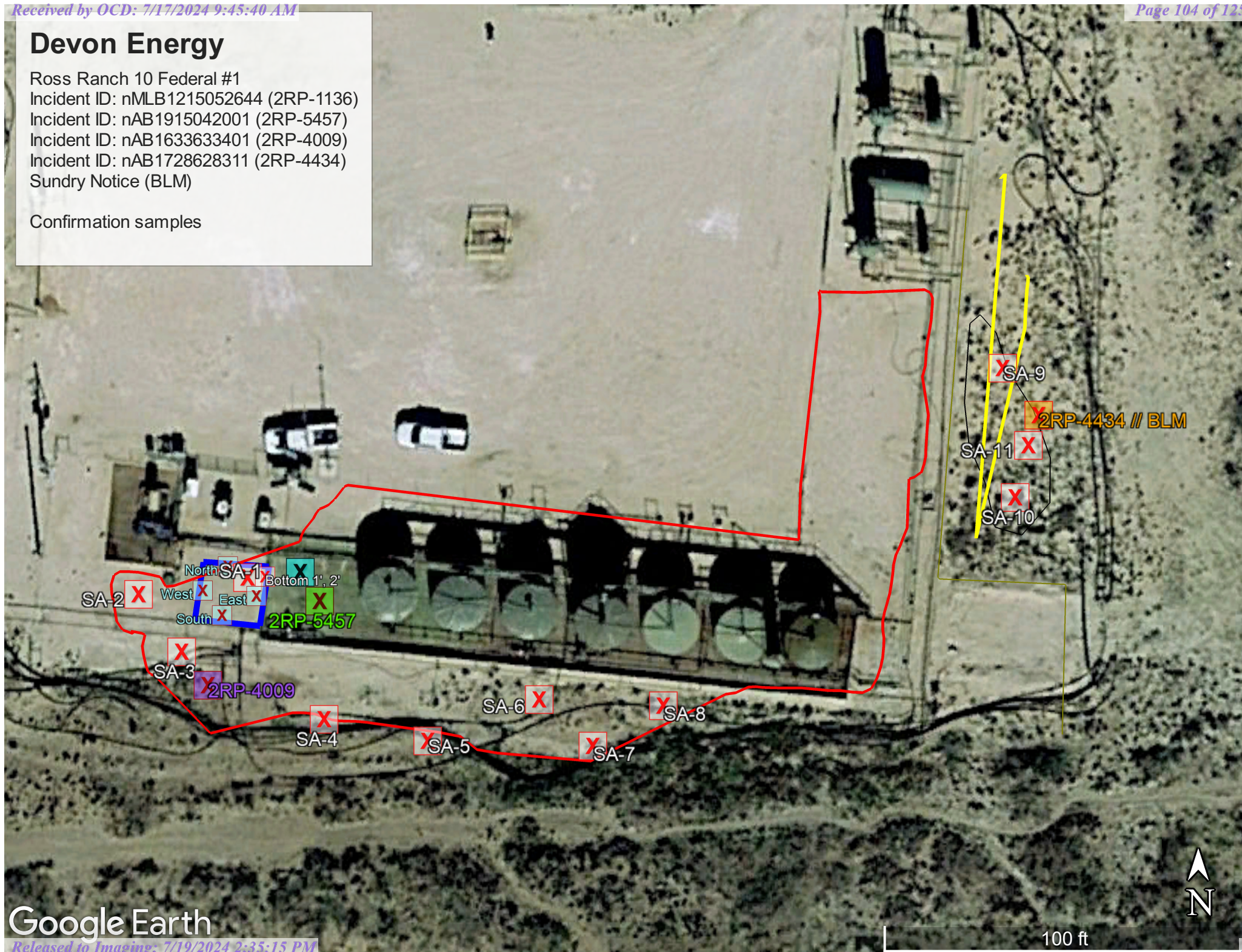
Incident ID: nAB1915042001 (2RP-5457)

Incident ID: nAB1633633401 (2RP-4009)

Incident ID: nAB1728628311 (2RP-4434)

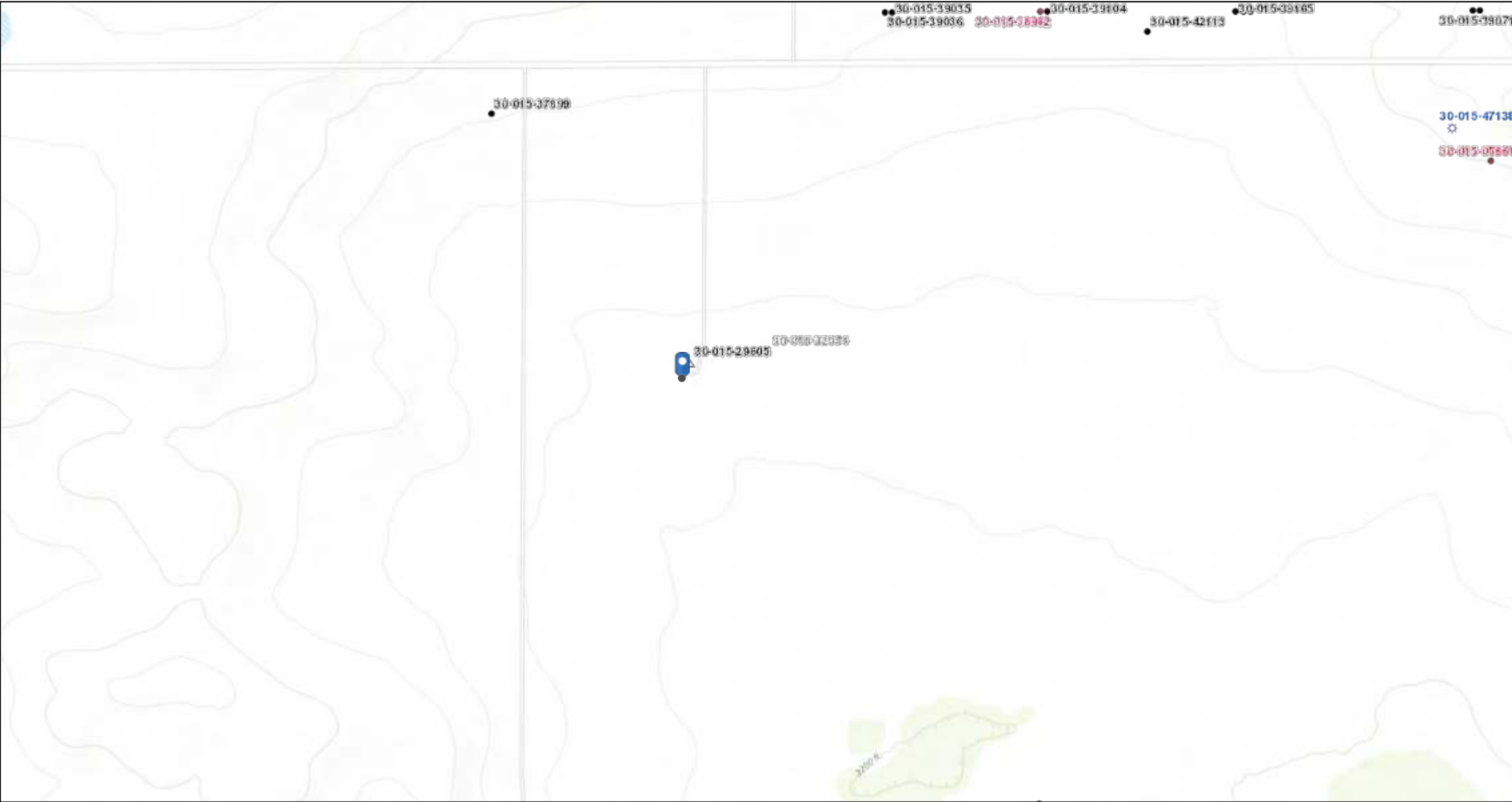
Sundry Notice (BLM)

Confirmation samples



Google Earth

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

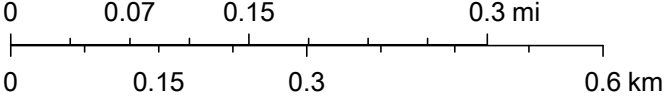
●

Water, Temporarily Abandoned

★

OCD District Offices

1:9,028



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 Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	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

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

6/7/19 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



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,

A handwritten signature in black ink that reads "Lucas Middleton". The signature is written in a cursive, flowing style.

Lucas Middleton

Enclosures: as noted above



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

27 2022 PM 145

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04700			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 3	SECONDS 48.97	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	45	47.89	W	* 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. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 4/17/23	DRILLING ENDED 4/17/23	DEPTH OF COMPLETED WELL (FT) Temporary Well Material		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 4/25/23		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM 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 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

	DEPTH (feet bgl)		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)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	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		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
	<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					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 <div style="text-align: right;">CSE UT PRX 27 2023 PM 145</div>						
5. TEST; RIG SUPERVISION	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:						
	 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):

- For each interval plugged, describe within the following columns:**

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_j7in

"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


USE 2023-04-27 20:23 PM 145




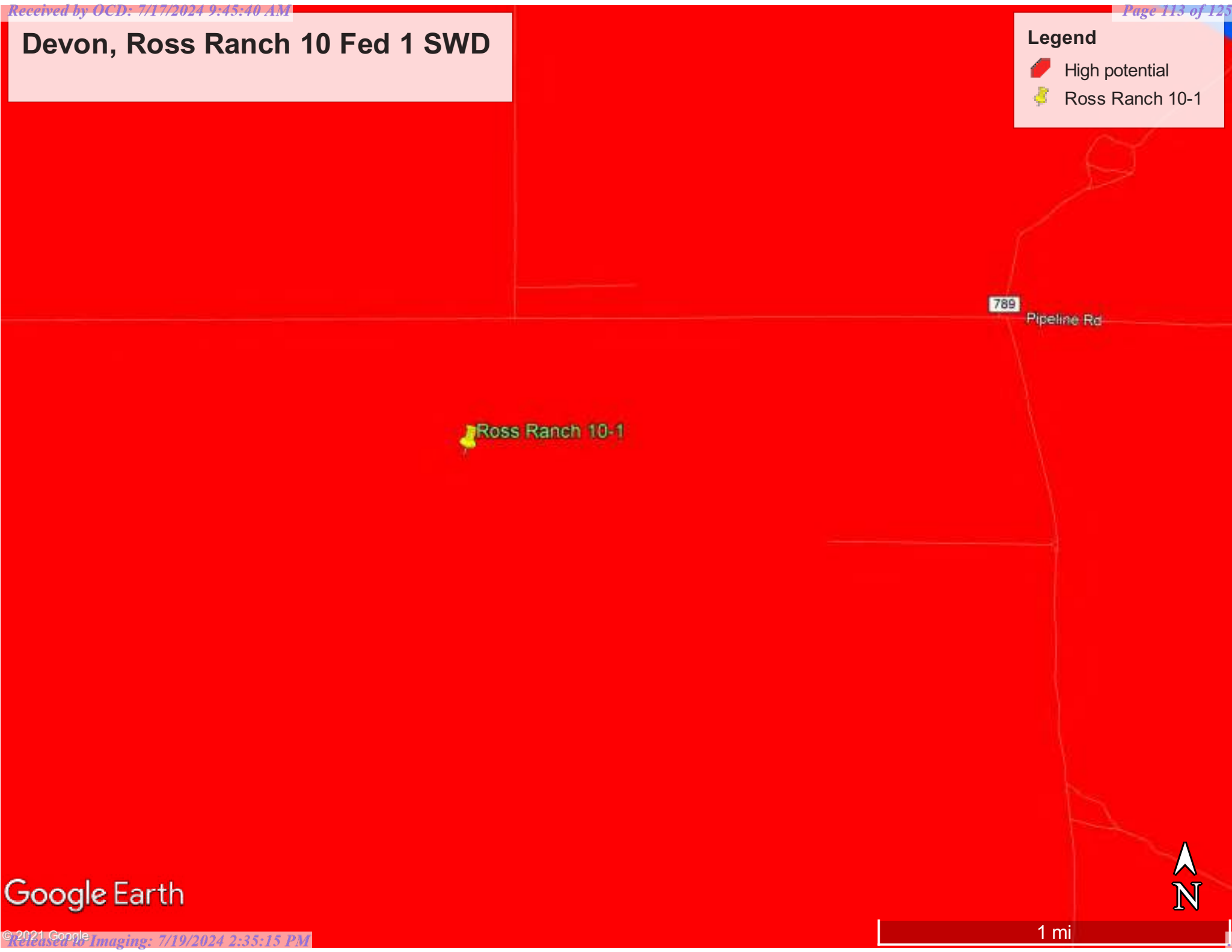
Adobe Acrobat Sign

Devon, Ross Ranch 10 Fed 1 SWD

Legend

 High potential

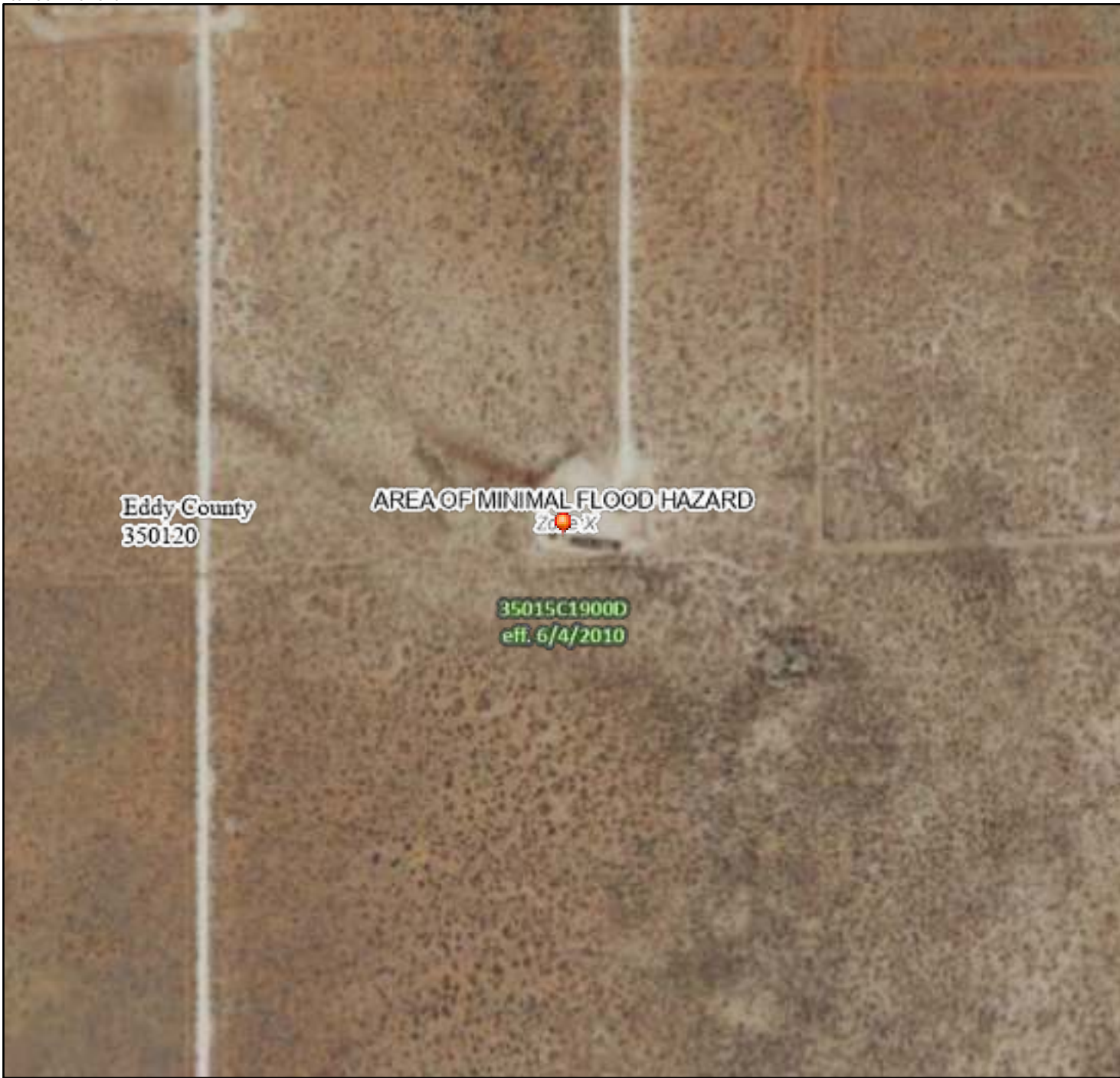
 Ross Ranch 10-1



National Flood Hazard Layer FIRMette



103°45'54"W 32°3'48"N



Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 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.

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <div><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody</div>

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Dale Woodall Date: 11/13/2023

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Dale Woodall Date: 11/13/2023

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Dale Woodall Date: 11/13/2023

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 364771

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364771
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1215052644
Incident Name	NMLB1215052644 ROSS RANCH 10 FEDERAL #001 @ 30-015-29605
Incident Type	Produced Water Release
Incident Status	Deferral Request 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	04/25/2012
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: Overflow - Tank, Pit, Etc. Separator Produced Water Released: 100 BBL Recovered: 100 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.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 364771

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364771
	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@dmv.com Date: 07/17/2024
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QUESTIONS, Page 3

Action 364771

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364771
	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
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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)	06/19/2024
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, Page 4

Action 364771

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364771
	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@dmn.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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QUESTIONS, Page 5

Action 364771

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364771
	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@dmv.com Date: 07/17/2024

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Action 364771

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364771
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 364771

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364771
	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