



February 6, 2025

NMOCD District 2
1811 S. First St.,
Artesia, New Mexico 88210

SUBJECT: Remediation Workplan for the Lotus SWD #001 Release (NAPP2110953917), Lea County, New Mexico

To Whom It May Concern,

On behalf of Owl SWD Operating LLC, Strata Resources (Strata) has prepared this Remediation Workplan that describes the delineation and proposed remediation for a release of liquids related to oil and gas production activities at the Lotus SWD #001. The site is in Unit A, Section 32, Township 22S, Range 32E, Lea County, New Mexico, on state land. Figure 1 illustrates the vicinity and site location on an USGS 7.5-minute quadrangle map.

Table 1 summarizes release information and closure criteria.

Table 1: Release Information and Closure Criteria			
Name	Lotus SWD #001	Company	Owl SWD Operating LLC
API Number	N/A	Location	32.35341, -103.69041
Incident Number	nAPP2110953917		
Estimated Date of Release	04/14/2021	Date Reported to NMOCD	04/19/2021
Land-Owner	State	Reported To	NMOCD, NMSLO
Source of Release	Check valve malfunction		
Released Volume	20 bbls	Released Material	Produced Water
Recovered Volume	0 bbls	Net Release	20 bbls
NMOCD Closure Criteria	<50 feet to groundwater		
Strata Response Dates	12/11/2024, 01/17/2025		



1.0 Background

On April 14, 2021, a release was discovered at the Lotus SWD #001 after a check valve had malfunctioned. Initial response actions were conducted by the operator and included source elimination by means of repair, site stabilization, and release recovery. The release consisted of 20 barrels of produced water with no recoverable quantities. Figures 1 and 2 illustrate the vicinity and site location, while Figure 3a illustrates the release location.

2.0 Site Information and Closure Criteria

The Lotus SWD #001 is located approximately 24 miles northeast of Loving, New Mexico on New Mexico State owned land at an elevation of approximately 3555 feet above mean sea level (amsl).

Based upon the New Mexico Office of the State Engineers (NMOSE) and United States Geological Survey online water well database, depth to groundwater in the area is greater than 50 feet below grade surface (bgs). There is no known water well sources within ½-mile of the location, according to the NMOSE database (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/; accessed 01/26/2025). The nearest significant water feature is an un-named waterbody/playa, located approximately 9,094 feet southeast of the location.

The nearest significant watercourse is an un-named draw that leads to Red Tank, located approximately 12,3245 feet northwest of the location. Figure 2 illustrates the site with 200 and 300-foot radii to indicate that it does not lie within a sensitive area as described in 19.15.29.12.C(4) NMAC.

Based on the information presented herein, the applicable NMOCD Closure Criteria for this site is for a groundwater depth of less than 50 feet bgs. The site has been restored to meet the standards of Table I of 19.15.29.12 NMAC.

Table 2 demonstrates the Closure Criteria applicable to this location. Pertinent well data is attached in Appendix A.

3.0 Release Characterization and Remediation Activities

On April 14, 2021, a release was discovered at the Lotus SWD #001 after a check valve had malfunctioned. Initial response actions were conducted by the operator and included source elimination by means of repair, site stabilization, and release recovery. The release consisted of 20 barrels of produced water with no recoverable quantities.

Strata Resources was hired to conduct a reclamation workplan on behalf of Owl SWD Operating for the Lotus SWD #001 to New Mexico State Land Office (NMSLO). During the desktop review of Lotus SWD #001, Strata found that incident no. nAPP2110953917 was still open. Strata contacted Nelson Velez to notify NMOCD that Strata will be working on getting incident no. nAPP2110953917 closed out concurrent with reclamation activities.



On December 11, 2024, initial site investigation activities were performed at the Lotus SWD #001. Soil samples were collected throughout the visibly stained area, as well as other areas of concern to determine vertical extent.

A total of twenty-seven (27) sample points (SP1-SP27) were vertically delineated within the areas of concern to depths up to five (5) feet bgs. Soil samples were field screened for chloride using an electrical conductivity (EC) meter and for hydrocarbon impacts using a calibrated MiniRAE 3000 photoionization detector (PID) equipped with a 10.6 eV lamp. A total of 27 samples were collected for laboratory analysis for chloride using the United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D.

On December 18, 2024, laboratory analysis indicated that sample locations SP1, SP3, SP4, SP22 – SP27 exceeded NMOCD closure criteria.

On January 17, 2025, personnel returned to the site to further delineate sample locations SP1, SP3, SP4, SP22 – SP27. The areas surrounding sample locations SP4, SP22, SP24, and SP26 were delineated to ten (10) feet bgs. The areas surrounding sample locations SP1, SP3, SP23, SP25, and SP27 were delineated to eight (8) feet bgs.

A total of thirteen (13) samples were collected for laboratory analysis for chloride using the United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D.

On January 28, 2025, Strata received laboratory confirmation that all samples were below NMOCD closure criteria.

4.0 Proposed Soil Remediation Work Plan

Strata Resources proposes excavation of contaminated soil for disposal at an NMOCD-permitted surface waste facility. Based on estimates from the site characterization, the excavation area will be completed in two areas: first area with a depth of ten (10) feet bgs and the second area with a depth of eight (8) feet bgs. The first area surrounding sample points SP4, SP22, SP24 and SP26 will be excavated to a depth of ten (10) feet bgs. The area surrounding sample point SP4 measures approximately 434 ft² and the area surrounding sample point SP22, SP24 and SP26 measures approximately 1,360 ft². The second area surrounding sample points SP1, SP3, SP23, SP25 and SP27 will be excavated to a depth of eight (8) feet bgs. The area surrounding sample point SP1, SP3, SP23, SP25 and SP27 measures approximately 3,055 ft².

Confirmation samples will be comprised of representative wall and base 5-point composite samples. Strata is proposing the collection of twenty-five (25) sample locations (CBS1-CBS24) at the base of the excavation and fifteen (15) sidewall samples (CSW1-CSW15). Samples will be



submitted laboratory analysis for total chloride using the United States Environmental Protection Agency (USEPA) Method 300.0; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using USEPA Method 8021B; and total petroleum hydrocarbons (TPH) as motor, diesel, and gasoline range organics (MRO, DRO, and GRO) by USEPA Method 8015D.

Approximately 1,570 cubic yards of contaminated soil is projected to be removed and replaced with clean backfill material in order to return the surface to previous conditions. The contaminated soil will be transported for disposal at R360 Environmental Solutions near Hobbs, NM, an NMOCD-permitted disposal facility.

5.0 Scope and Limitations

The scope of our services included: assessment sampling, verifying release stabilizations; regulatory liaison; remediation; and preparation of remediation plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact Lynn Acosta at (505) 516-7469 or lynn@strataresourcesllc.com.

Submitted by:

Strata Resources LLC

A handwritten signature in black ink, appearing to read "Lynn A. Acosta". The signature is fluid and cursive, with the first and last names being more prominent.

Lynn A. Acosta,
Project Geoscientist



ATTACHMENTS

Figures:

Figure 1: Topographic Site Map

Figure 2: Aerial Site Map

Figure 3: Site Characterization Map

Figure 3a: Excavation Depth Map

Tables:

Table 2: NMOCD Closure Criteria

Table 3: Summary of Sample Results

Appendices:

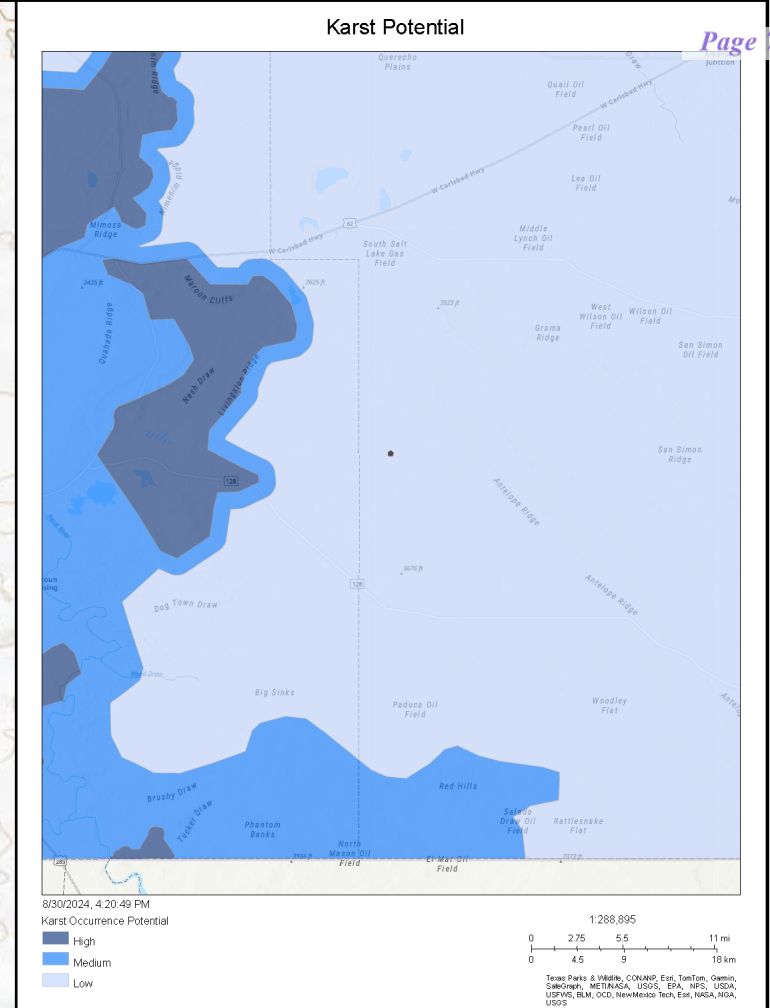
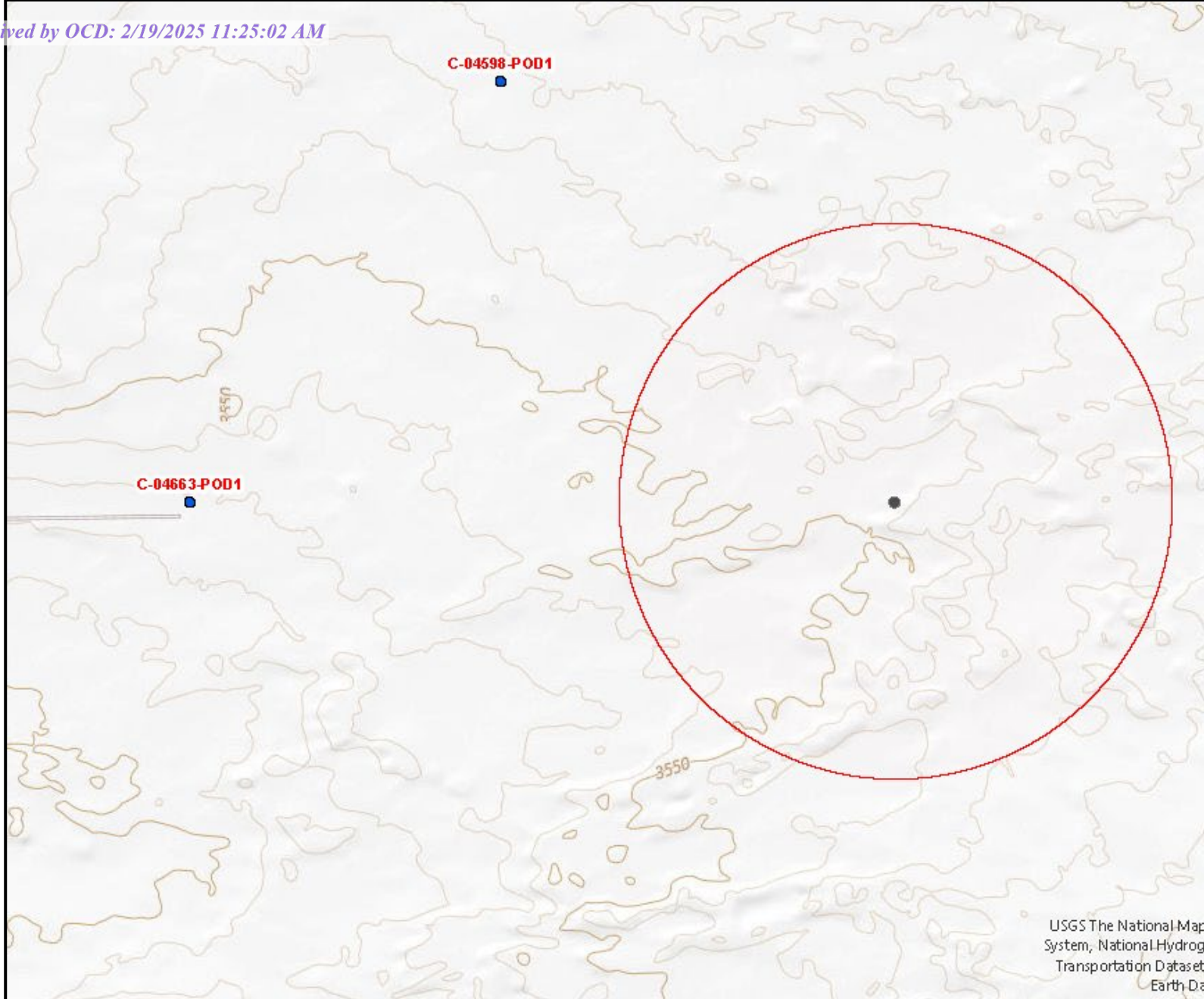
Appendix A: NMCOD Correspondence

Appendix B: NMOSE Wells Report

Appendix C: Analytical Laboratory Results



FIGURES



USGS The National Map; National Boundaries Dataset; 3DEP Elevation Program; Geographic Names Information System; National Hydrography Dataset; National Land Cover Database; National Structures Dataset; and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road data; Natural Earth Data; U.S. Department of State HII; NOAA National Centers for Environmental Information

Drawn By: HEA

Reviewed By: LAA

Released to Imaging: 3/3/2025 1:48:46 PM

Date Drawn: 08/30/2024

Figure 1: Site Map

Lotus SWD #001 – Owl SWD Operating

UL: A S: 32 T: 22S R: 32E / LAT: 32.3534355 LONG: -103.6903763

P.O. Box 2474

Carlsbad, NM 88221











TABLES

Table 2:
NMOCD Closure Criteria

Owl SWD Operating, LLC
Lotus SWD #001 - NAPP2110953917

Site Information (19.15.29.11.A(2, 3, and 4) NMAC)		Source/Notes
Depth to Groundwater (feet bgs)	> 50	New Mexico Office of the State Engineer
Horizontal Distance From All Water Sources Within 1/2 Mile (ft)	> 1/2 Mile	United States Geological Survey Topo Map
Horizontal Distance to Nearest Significant Watercourse (ft)	> 10,000	United States Geological Survey Topo Map

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater		Closure Criteria (units in mg/kg)				
		Chloride *numerical limit or background, whichever is greater	TPH	GRO + DRO	BTEX	Benzene
< 50' BGS	X	600	100		50	10
51' to 100'		10000	2500	1000	50	10
>100'		20000	2500	1000	50	10
Surface Water	yes or no	if yes, then				
<300' from continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200' from lakebed, sinkhole or playa lake?	No					
Water Well or Water Source						
<500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No					
<1000' from fresh water well or spring?	No					
Human and Other Areas						
<300' from an occupied permanent residence, school, hospital, institution or church?	No					
within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100' from wetland?	No					
within area overlying a subsurface mine	No					
within an unstable area?	No					
within a 100-year floodplain?	No					

Table 3: Summary of Sample Results

Owl SWD Operating, LLC
Lotus SWD #001 - NAPP2110953917

Sample ID	Sample Date	Proposed Action	Depth (feet bgs)	BTEX mg/Kg	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	MRO mg/Kg	Total TPH mg/Kg	Cl-mg/Kg
NMOCD Closure Criteria <50				50	10	-		-	100	600
SP1	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1010
	1/17/2025	In-Situ	8	-	-	-	-	-	-	<16.0
SP2	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
		In-Situ	1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	256
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP3	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1310
	1/17/2025	In-Situ	8	-	-	-	-	-	-	32
SP4	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	816
	1/17/2025	In-Situ	10	-	-	-	-	-	-	16
SP5	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
		In-Situ	1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	96
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP6	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
		In-Situ	5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	496
SP7	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
		In-Situ	1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	384
SP8	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
		In-Situ	5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	544

Table 3: Summary of Sample Results

Owl SWD Operating, LLC
Lotus SWD #001 - NAPP2110953917

SP9	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	96
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP10	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	64
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP11	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP12	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP13	12/11/2024	In-Situ	Surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	<16.0
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP14	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
		In-Situ	4	-	-	-	-	-	-	-
SP15	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP16	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	64
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP17	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
		In-Situ	2	-	-	-	-	-	-	-
			3	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	352
			4	-	-	-	-	-	-	-

Table 3: Summary of Sample Results

Owl SWD Operating, LLC
Lotus SWD #001 - NAPP2110953917

SP18	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	368
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP19	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
		In-Situ	2	-	-	-	-	-	-	-
			3	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	160
			4	-	-	-	-	-	-	-
SP20	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	176
		In-Situ	2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
SP21	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
		In-Situ	4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	144
SP22	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	960
	1/17/2025	In-Situ	10	-	-	-	-	-	-	16
SP23	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	608
			2	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	-	-	-	-	-	-	-
	1/17/2025	In-Situ	8	-	-	-	-	-	-	32
SP24	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1730
	1/17/2025	In-Situ	10	-	-	-	-	-	-	16

Table 3: Summary of Sample Results

Owl SWD Operating, LLC
Lotus SWD #001 - NAPP2110953917

SP25	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	1420
SP26	1/17/2025	In-Situ	8	-	-	-	-	-	-	16
	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	<0.300	<0.050	3830	769	<10.0	4599	240
SP27	1/17/2025	In-Situ	10	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	16
	12/11/2024	Excavate	Surface	-	-	-	-	-	-	-
			1	-	-	-	-	-	-	-
			2	-	-	-	-	-	-	-
			3	-	-	-	-	-	-	-
			4	-	-	-	-	-	-	-
			5	<0.300	<0.050	<10.0	<10.0	<10.0	<0.30	1010
SP28	1/17/2025	In-Situ	8	-	-	-	-	-	-	32
	1/17/2025	In-Situ	Surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	16
	1/17/2025	In-Situ	Surface	<0.300	<0.50	<10.0	<10.0	<10.0	<10.0	16
	1/17/2025	In-Situ	Surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	32
	1/17/2025	In-Situ	Surface	<0.300	<0.050	<10.0	<10.0	<10.0	<30.0	16



APPENDIX A: NMOCD CORRESPONDENCE

From: [Lynn Acosta](#)
To: Nelson.Velez@state.nm.us
Cc: [Hayden Acosta](#)
Subject: RE: Lotus SWD #001 - Reclaim
Date: Sunday, January 19, 2025 8:29:00 PM
Attachments: [image001.png](#)

Good Evening Nelson,

I apologize about the late email, things finally got settled at the Acosta household and wanted to update you on this.

Last week we went ahead and started delineating the area where incident no. NAPP2110953917 had occurred. We are awaiting lab results that were sent off to Cardinal labs. According to the field screening, we will likely be going through a remediation plan process since this not only involving NMOCD (incident closure) but NMSLO (reclaim) as well.

Again, just wanted to keep you updated. Give me or Hayden a call if you have any questions. Thank you for your time.



Lynn Acosta
Project Geoscientist

lynn@strataresourcesllc.com
505-516-7469
PO Box 2474
Carlsbad, NM 88221

From: Lynn Acosta
Sent: Monday, January 6, 2025 11:30 AM
To: Nelson.Velez@state.nm.us
Cc: Hayden Acosta <hayden@strataresourcesllc.com>
Subject: Lotus SWD #001 - Reclaim

Good Morning Nelson,

I got your contact information from Ashley Maxwell. We conducted a reclaim workplan for Owl SWD Operating at the Lotus SWD #001 site that is on New Mexico State Land. During our investigation we noticed that Incident No. NAPP2110953917 was never progressed after the initial NOR and C-141 were filed. I wanted to reach out to you to work on getting this closed out so that reclamation can proceed.

While researching this incident I determined that there are three water wells within a mile of the release area. The three water wells are due northwest, west, and southeast. I have attached the downloadable excel file from NMOSE showing distance from Lotus No. 1 to the water well, depth drilled, and water level. I have also attached the well logs for each well. The northwest water well was drilled to 56 feet bgs and finalized as a dry hole. The west well was drilled to 110 feet bgs and finalized as a dry hole. The south water well was drilled to 105 feet bgs and finalized with a depth to water at 78 feet bgs. Based on this information, I would like to request a variance for a closure criterion of Depth to Groundwater greater than 50 ft bgs.

Please let me know if you have any questions or concerns.



Lynn Acosta

Project Geoscientist

lynn@strataresourcesllc.com

505-516-7469

PO Box 2474

Carlsbad, NM 88221



APPENDIX B: NMOSE WELLS REPORT



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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04862 POD1		CUB	LE	NE	NW	NW	04	23S	32E	623697.0	3578798.5		1636	105	78	27
C 04598 POD1		CUB	LE	NE	SW	NW	29	22S	32E	622069.2	3581570.2		1671	56		
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4		2047	110		

Average Depth to Water: 78 feet

Minimum Depth: 78 feet

Maximum Depth: 78 feet

Record Count: 3

UTM Filters (in meters):

Easting: 623228.71



Northing: 3580366.18

Radius: 2700

* 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.

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 smallest to largest)		(NAD83 UTM in meters)		(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth						
C 04598 POD1		CUB	LE	NE	SW	NW	29	22S	32E	622069.2	3581570.2		1671	56						
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4		2047	110						

Average

Minimum

Maximum



Record Count: 2

UTM Filters (in meters):

Easting: 623228.71

Northing: 3580366.18

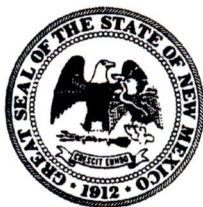
Radius: 2500

* 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.

8/24/24 10:19 AM MST

Water Column/Average Depth to Water



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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OSE DIT APR 8 2022 PM 3:14

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4598			
	WELL OWNER NAME(S) Lucid Energy Group				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 201 S. 4th St				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 21	SECONDS 51.92	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	42	9.15	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NE SW NW Sec. 29 T22S R32E, 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 3/30/2022	DRILLING ENDED 3/30/2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) ±56	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 3/30/2022, 04/05/2024	
	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	56	±6.5	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		

FOR OSE INTERNAL USE

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

FILE NO. C-4598	POD NO. 1	TRN NO. 719278
LOCATION 22S.32E.29.1.3.2	WELL TAG ID NO. N-A	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	19	19	Sand, medium grained, poorly graded, with caliche, Tan and white	Y ✓ N	
	19	29	10	Sand, medium grained, poorly graded, Red	Y ✓ N	
	29	56	27	Clay, Hard, Red, Dry	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	<div style="text-align: right; color: blue; font-style: italic;">OSE DIT APR 8 2022 PM3:14</div>	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, 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:	
	<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> SIGNATURE OF DRILLER / PRINT SIGNED NAME </div> <div style="text-align: center;"> Jackie D. Atkins _____ DATE </div> <div style="text-align: center;"> 04/07/2022 _____ </div> </div>	

FOR OSE INTERNAL USE

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

FILE NO. C-4598	POD NO. 1	TRN NO. 719278
LOCATION 225.32E.29.1.3.2	WELL TAG ID NO. N-A	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 719278
File Nbr: C 04598
Well File Nbr: C 04598 POD1

Apr. 19, 2022

MICHAEL GANT
LUCID ENERGY GROUP
201 S 4TH ST
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 02/17/2022.

The Well Record was received in this office on 04/08/2022, stating that it had been completed on 03/30/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/17/2023.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Deborah Jones".

Deborah Jones
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

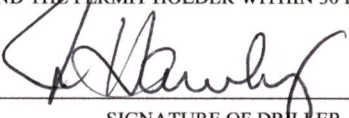
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). C-4862		
	WELL OWNER NAME(S) Coterra Energy Co.				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 6001 Deauville Blvd. Ste. 300N				CITY Midland	STATE TX	
					ZIP 79706		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 20	SECONDS 21.28	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	41	8.18	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NWNW S-4 T-23S R-32E							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC	
	DRILLING STARTED 8/14/24	DRILLING ENDED 8/14/24	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) 78		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 78		DATE STATIC MEASURED 8/20/24
	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 type="checkbox"/> OTHER - SPECIFY:						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)
				No casing left in hole			
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)		AMOUNT (cubic feet)	METHOD OF PLACEMENT
				N/A			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04862	POD NO. 1	TRN NO. 764584
LOCATION 23S. 32E. 04. 211	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			
0	15	15	White caliche	Y ✓ N	
15	20	5	gray sandy clay	Y ✓ N	
20	40	20	red sandy clay	Y ✓ N	
40	85	45	blue/gray sandy clay	✓ Y N	
85	105	20	red clay	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: N/A				TOTAL ESTIMATED WELL YIELD (gpm): 0	
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: Well was drilled on 8/14/24, well was gauged with a well sounder on 8/20/24/, casing was removed. Well will be plugged on 8/22/24 pursuant to the approved plugging plan of operations.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Nathan Smelcer					
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:					
SIGNATURE OF DRILLER / PRINT SIGNEE NAME  James Hawley			DATE 8/20/24		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-04862	POD NO. 1	TRN NO. 764584	
LOCATION 23S. 32E. 04. 211	WELL TAG ID NO. —	PAGE 2 OF 2	



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04663 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-04663			
	WELL OWNER NAME(S) OXY US INC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 4294				CITY HOUSTON	STATE TX	ZIP 77210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 21	SECONDS 12.43	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE -103	42	43.74	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE PROXIMITY 31								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1184		NAME OF LICENSED DRILLER RUSSELL SOUTHERLAND			NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE		
	DRILLING STARTED 09/01/2022	DRILLING ENDED 09/01/2022	DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)			
	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			
	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 type="checkbox"/> OTHER – SPECIFY:							
	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)
				NO CASING IN HOLE				
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				

OSE DJI SEP 20 2022 PM 1:31

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04663	POD NO. 1	TRN NO. 732427
LOCATION 27S. 32E. 31. 3. 1. 2	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				
0	10		RED SAND	Y ✓ N		
10	14		CALICHIE	Y ✓ N		
14	17		RED SAND	Y ✓ N		
17	40		RED SANDY CLAY	Y ✓ N		
40	90		SANDSTONE	Y ✓ N		
90	97		RED CLAY	Y ✓ N		
97	100		SANDSTONE	Y ✓ N		
100	110		RED CLAY WITH SANDSTONE	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: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: DRY HOLE				TOTAL ESTIMATED WELL YIELD (gpm):	0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION:					
	DSE DII SEP 20 2022 PM 1:31					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: RUSSELL SOUTHERLAND						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				09/01/2022 DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO. C-04663	POD NO. 1	TRN NO. 732427	
LOCATION 775.32E, 31.3.1.2	WELL TAG ID NO. _____	PAGE 2 OF 2	



APPENDIX C: ANALYTICAL LABORATORY RESULTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 18, 2024

LYNN ACOSTA

TIGER ENERGY OILFIELD SERVICES

5506 MOUNTAIN VIEW DR.

SNYDER, TX 79549

RE: LOTUS SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/12/24 14:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 1 @ 5 (H247543-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01	
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13	
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58	
Total BTEX	<0.300	0.300	12/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	12/16/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 2 @ 1 (H247543-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/16/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 3 @ 5 (H247543-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	12/16/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 4 @ 5 (H247543-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01	
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13	
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58	
Total BTEX	<0.300	0.300	12/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/16/2024	ND	400	100	400	11.3	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 5 @ 1 (H247543-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 6 @ 5 (H247543-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/16/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 7 @ 4 (H247543-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 8 @ 5 (H247543-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 9 @ 1 (H247543-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 10 @ 1 (H247543-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 11 @ 1 (H247543-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01	
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13	
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58	
Total BTEX	<0.300	0.300	12/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 12 @ 1 (H247543-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 13 @ SUR (H247543-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 14 @ 5 (H247543-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 15 @ 1 (H247543-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 16 @ 1 (H247543-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01	
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83	
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13	
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58	
Total BTEX	<0.300	0.300	12/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/16/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 17 @ 3 (H247543-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	1.87	93.5	2.00	3.01		
Toluene*	<0.050	0.050	12/14/2024	ND	1.91	95.7	2.00	1.83		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	1.97	98.7	2.00	1.13		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	6.02	100	6.00	1.58		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/16/2024	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 18 @ 1 (H247543-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 19 @ 3 (H247543-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 20 @ 1 (H247543-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2024	ND	184	91.8	200	0.121	
DRO >C10-C28*	<10.0	10.0	12/16/2024	ND	186	92.8	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	12/16/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 21 @ 5 (H247543-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 22 @ 5 (H247543-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 23 @ 1 (H247543-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	12/16/2024	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 24 @ 5 (H247543-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	12/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 25 @ 5 (H247543-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEX	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	12/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 26 @ 1 (H247543-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60	
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9	
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8	
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4	
Total BTEX	<0.300	0.300	12/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/17/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	3830	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	769	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 12/12/2024
 Reported: 12/18/2024
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 12/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP # 27 @ 5 (H247543-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2024	ND	2.27	114	2.00	6.60		
Toluene*	<0.050	0.050	12/14/2024	ND	2.29	114	2.00	10.9		
Ethylbenzene*	<0.050	0.050	12/14/2024	ND	2.34	117	2.00	11.8		
Total Xylenes*	<0.150	0.150	12/14/2024	ND	7.01	117	6.00	12.4		
Total BTEx	<0.300	0.300	12/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	12/17/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2024	ND	198	99.0	200	2.62	
DRO >C10-C28*	<10.0	10.0	12/13/2024	ND	174	86.8	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	12/13/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tiger Energy Oilfield Services</u>				BILL TO				ANALYSIS REQUEST																															
Project Manager: <u>Lynn Acosta</u>				P.O. #:				<u>BT EX</u> <u>TPH 8015 Gro. Pro. MRO</u> <u>CI</u>																															
Address: <u>5506 Mountain View Dr</u>				Company: <u>Tiger Energy</u>																																			
City: <u>Snyder</u> State: <u>TX</u> Zip: <u>79549</u>				Attn:																																			
Phone #: <u>432-894-2967</u> Fax #:				Address:																																			
Project #: _____ Project Owner:				City:																																			
Project Name: <u>Lotus SWD</u>				State: _____ Zip: _____																																			
Project Location:				Phone #:																																			
Sampler Name:				Fax #:																																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																									
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / <u>GOOD</u>		OTHER:		DATE		TIME													
<u>H201513</u>		<u>1</u>		<u>SP#1 C5</u>						<u>X</u>								<u>X</u>						<u>12-11-21</u>															
<u>2</u>				<u>SP#2 C1</u>																																			
<u>3</u>				<u>SP#3 C5</u>																																			
<u>4</u>				<u>SP#4 C5</u>																																			
<u>5</u>				<u>SP#5 C1</u>																																			
<u>6</u>				<u>SP#6 C5</u>																																			
<u>7</u>				<u>SP#7 C4</u>																																			
<u>8</u>				<u>SP#8 C5</u>																																			
<u>9</u>				<u>SP#9 C1</u>																																			
<u>10</u>				<u>SP#10 C1</u>																																			

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Relinquished By: <u>[Signature]</u>		Date: <u>12-12-21</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: <u>[Signature]</u>		Time: <u>14:57</u>		Received By: <u>[Signature]</u>		All Results are emailed. Please provide Email address:	
Date: _____		Time: _____		Date: _____		REMARKS: <u>Howden & Strater resources LLC. Corn</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>0.02</u>		Sample Condition		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>0.02</u>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				CHECKED BY: (Initials) <u>[Signature]</u>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Observed Temp. °C	
						Corrected Temp. °C	
						Thermometer ID #140	
						Correction Factor -0.6°C	

FORM-006 R 3.3 08/05/24

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Tiger Energy Oilfield Services</i> Project Manager: <i>Lynn Acosta</i> Address: <i>5506 Mountain View Dr</i> City: <i>Snyder</i> State: <i>TX</i> Zip: <i>79549</i> Phone #: <i>432-894-2967</i> Fax #: Project #: Project Owner: Project Name: <i>Lotus SWD</i> Project Location: Sampler Name:				BILL TO P.O. #: Company: <i>Tiger Energy</i> Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																		
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<i>W247513</i>						<i>X</i>					<i>COOL</i>		<i>12-1-24</i>													
<i>11</i>	<i>SP #11 C1</i>																									
<i>12</i>	<i>SP 12 C1</i>																									
<i>13</i>	<i>SP 13 CSUR</i>																									
<i>14</i>	<i>SP 14 C5</i>																									
<i>15</i>	<i>SP 15 C1</i>																									
<i>16</i>	<i>SP 16 C1</i>																									
<i>17</i>	<i>SP 17 C3</i>																									
<i>18</i>	<i>SP 18 C1</i>																									
<i>19</i>	<i>SP 19 C3</i>																									
<i>20</i>	<i>SP 20 C1</i>																									

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Relinquished By: <i>[Signature]</i> Date: <i>12-1-24</i> Time: <i>1457</i>		Received By: <i>[Signature]</i> Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <i>Hayden@straterresourcesllc.com</i>	
Relinquished By: Date: Time:		Received By: Date: Time:		REMARKS: <i>Please total TPH</i>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <i>00.0</i> Corrected Temp. °C <i>-0.0</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
		CHECKED BY: (Initials) <i>[Initials]</i>		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #140 Correction Factor -0.6°C	
				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	

FORM-006 R 3.3 06/03/24

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Tiger Energy Oilfield Services</i> Project Manager: <i>Lynn Acosta</i> Address: <i>5506 Mountain View Dr</i> City: <i>Snyder</i> State: <i>TX</i> Zip: <i>79549</i> Phone #: <i>432-894-2967</i> Fax #: Project #: Project Owner: Project Name: <i>Lotus SWD</i> Project Location: Sampler Name:				BILL TO P.O. #: Company: <i>Tiger Energy</i> Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE	OTHER:	DATE	TIME													
<i>H247543</i>													<i>12-11</i>	<i>4:52</i>													
<i>21</i>	<i>SP# 21 0 5</i>																										
<i>22</i>	<i>SP# 22 0 5</i>																										
<i>23</i>	<i>SP# 23 0 1</i>																										
<i>24</i>	<i>SP# 24 0 5</i>																										
<i>25</i>	<i>SP# 25 0 5</i>																										
<i>26</i>	<i>SP# 26 0 1</i>																										
<i>27</i>	<i>SP# 27 0 5</i>																										

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Relinquished By: <i>Mika Be</i> Relinquished By:		Date: <i>12-12-24</i> Time: <i>14:57</i> Date: Time:		Received By: <i>Infamous</i> Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <i>Hayden@straterraresourcesllc.com</i>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <i>0.02</i> Corrected Temp. °C <i>-0.02</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>KP</i>	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Thermometer ID #140 Correction Factor -0.6°C		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C		REMARKS: <i>Please total TPH</i>	

FORM-000 R 3.3 06/03/24

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 28, 2025

LYNN ACOSTA

TIGER ENERGY OILFIELD SERVICES

5506 MOUNTAIN VIEW DR.

SNYDER, TX 79549

RE: LOTUS SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/22/25 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #1 @ 8' (H250384-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	0.00	

Sample ID: SP #3 @ 8' (H250384-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	416	104	400	0.00	

Sample ID: SP #4 @ 10' (H250384-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

Sample ID: SP #22 @ 10' (H250384-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #23 @ 8' (H250384-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	464	116	400	3.51	

Sample ID: SP #24 @ 10' (H250384-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

Sample ID: SP #25 @ 8' (H250384-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #26 @ 10' (H250384-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2025	ND	1.74	86.8	2.00	12.4	
Toluene*	<0.050	0.050	01/23/2025	ND	1.86	93.1	2.00	13.5	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.81	90.6	2.00	14.5	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.30	88.4	6.00	15.0	
Total BTX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	210	105	200	0.793	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	206	103	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #27 @ 8' (H250384-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/24/2025	ND	464	116	400	3.51		

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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #28 @ SURFACE (H250384-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2025	ND	1.74	86.8	2.00	12.4		
Toluene*	<0.050	0.050	01/23/2025	ND	1.86	93.1	2.00	13.5		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.81	90.6	2.00	14.5		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.30	88.4	6.00	15.0		
Total BTEx	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	210	105	200	0.793	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	206	103	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #29 @ SURFACE (H250384-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2025	ND	1.93	96.7	2.00	15.3		
Toluene*	<0.050	0.050	01/23/2025	ND	2.04	102	2.00	15.5		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.08	104	2.00	15.9		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.33	105	6.00	15.1		
Total BTX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	210	105	200	0.793	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	206	103	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #30 @ SURFACE (H250384-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2025	ND	1.93	96.7	2.00	15.3		
Toluene*	<0.050	0.050	01/23/2025	ND	2.04	102	2.00	15.5		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.08	104	2.00	15.9		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.33	105	6.00	15.1		
Total BTX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/24/2025	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	210	105	200	0.793	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	206	103	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TIGER ENERGY OILFIELD SERVICES
 LYNN ACOSTA
 5506 MOUNTAIN VIEW DR.
 SNYDER TX, 79549
 Fax To:

Received: 01/22/2025
 Reported: 01/28/2025
 Project Name: LOTUS SWD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 01/17/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SP #31 @ SURFACE (H250384-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2025	ND	1.93	96.7	2.00	15.3		
Toluene*	<0.050	0.050	01/23/2025	ND	2.04	102	2.00	15.5		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.08	104	2.00	15.9		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.33	105	6.00	15.1		
Total BTX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/24/2025	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	210	105	200	0.793	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	206	103	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tiger Energy Oilfield Service</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager: <u>Lynn Acosta</u>		P.O. #:		<u>BETA</u> <u>TPH 8015 Gro, Dro, MPO</u> <u>Chloride</u>																					
Address: <u>5506 Mountain View Dr</u>		Company:																							
City: <u>Snyder</u> State: <u>TX</u> Zip: <u>79549</u>		Attn:																							
Phone #: <u>432-894-2967</u> Fax #:		Address:																							
Project #: _____ Project Owner:		City:																							
Project Name: <u>Lotus SWD</u>		State: _____ Zip: _____																							
Project Location:		Phone #:																							
Sampler Name:		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<u>H250384</u>	<u>SP #1 @ 8'</u>					X				X			<u>1-17-25</u>	<u>0800</u>											
<u>2</u>	<u>SP #3 @ 8'</u>					X				X			<u>1-17-25</u>	<u>0810</u>											
<u>3</u>	<u>SP #4 @ 10'</u>					X				X			<u>1-17-25</u>	<u>0820</u>											
<u>4</u>	<u>SP #22 @ 10'</u>					X				X			<u>1-17-25</u>	<u>0830</u>											
<u>5</u>	<u>SP #23 @ 8'</u>					X				X			<u>1-17-25</u>	<u>0840</u>											
<u>6</u>	<u>SP #24 @ 10'</u>					X				X			<u>1-17-25</u>	<u>0850</u>											
<u>7</u>	<u>SP #25 @ 8'</u>					X				X			<u>1-17-25</u>	<u>0900</u>											
<u>8</u>	<u>SP #26 @ 10'</u>					X				X			<u>1-17-25</u>	<u>0910</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>9</u>	<u>SP #27 @ 8'</u>					X				X			<u>1-17-25</u>	<u>0920</u>	<u>X</u>	<u>X</u>	<u>X</u>								
<u>10</u>	<u>SP #28 @ Surface</u>					X				X			<u>1-17-25</u>	<u>0930</u>	<u>X</u>	<u>X</u>	<u>X</u>								

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Relinquished By: <u>[Signature]</u>	Date: <u>1-22-25</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>11:55</u>	Received By: <u>[Signature]</u>	All Results are emailed. Please provide Email address:
	Date: _____		<u>Lynn@strataresources.com</u>
	Time: _____		REMARKS:
			<u>Please total TPH</u>
Delivered By: (Circle One)	Observed Temp. °C <u>33.2</u>	Sample Condition	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>27.4</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) <u>[Signature]</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C

Thermometer ID #140
Correction Factor -0.6°C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:				BILL TO				ANALYSIS REQUEST																			
Project Manager:				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 805 600, 600, 600</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> </div>																			
Address:				Company:																							
City:		State:		Zip:		Attn:																					
Phone #:		Fax #:		Address:																							
Project #:		Project Owner:		City:																							
Project Name: Lotus SWD				State:																Zip:							
Project Location:				Phone #:																							
Sampler Name:				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER		ACID/BASE:		DATE		TIME													
								WASTEWATER		ICE / COOL																	
								SOIL		OTHER:																	
								OIL																			
								SLUDGE																			
								OTHER:																			
H250384										✓																	
11		SP #29 @ Surface								X		1-17-25		0940		X X X											
12		SP #30 @ Surface								X		1-17-25		0950		X X X											
13		SP #31 @ Surface								X		1-17-25		1000		X X X											

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Relinquished By:		Date: 1-22-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1:55				Time: 1:55		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:						Cont	
Delivered By: (Circle One)		Observed Temp. °C 3.3		Sample Condition		CHECKED BY: (Initials) AD	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 2.7		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard Rush <input checked="" type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 433513

QUESTIONS

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2110953917
Incident Name	NAPP2110953917 LOTUS #1 SWD @ 30-025-36004
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-36004] LOTUS SWD #001

Location of Release Source

Please answer all the questions in this group.

Site Name	LOTUS #1 SWD
Date Release Discovered	04/14/2021
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 20 BBL Recovered: 0 BBL Lost: 20 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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 433513

QUESTIONS (continued)

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All actions have occurred

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: SHELLY COWDEN Title: NM Regulatory Manager Email: shelly.cowden@pilotwater.com Date: 02/19/2025
--	--

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 433513

QUESTIONS (continued)

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	1730
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4599
GRO+DRO (EPA SW-846 Method 8015M)	4599
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
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	02/07/2025
On what date will (or did) the final sampling or liner inspection occur	02/14/2025
On what date will (or was) the remediation complete(d)	02/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	4849
What is the estimated volume (in cubic yards) that will be reclaimed	1570
What is the estimated surface area (in square feet) that will be remediated	4849
What is the estimated volume (in cubic yards) that will be remediated	1570

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 433513

QUESTIONS (continued)

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: SHELLY COWDEN Title: NM Regulatory Manager Email: shelly.cowden@pilotwater.com Date: 02/19/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 433513

QUESTIONS (continued)

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 433513

QUESTIONS (continued)

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 433513

CONDITIONS

Operator: OWL SWD OPERATING, LLC 20 Greenway Plaza Houston, TX 77046	OGRID: 308339
	Action Number: 433513
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved with the following conditions; 1. Prior to backfilling any open excavations per 19.15.29.12D (2) NMAC, Owl must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 2. Owl has 90-days (June 2, 2025) to submit to OCD its appropriate or final remediation closure report.	3/3/2025