

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

Incident # nAPP2406454812

The Pump Canyon SWD #001 API# 30-045-26970 is in Unit J, Section 07, Township 30 North, Range 08 West, San Juan County, New Mexico.

RE: The cause of the release was determined that the motor was cracked from the SWD and resulted in the release on pad. The estimated release volume was 240 BBLS and 220 BBLS were recovered via water truck. Volume lost was calculated using telemetry.

Dear Mr. Velez,

On March 4, 2024, LOGOS Pump Canyon SWD #001 SWD Motor experienced a failure resulting in 240 barrels of produced water released on location, no fluids left the vicinity and water trucks were at the disposal at the time of the release and was able to recover 220 barrels of free liquid.

The release size was 98'X 95'X 0.3'. Equaling 9,497 sq ft in area. The release area was contained on pad. Due to the release area fluid removed quickly LOGOS was able to skim the release area with a backhoe and remove 3 cyds of impacted soil and transport to Envirotech Landfarm. LOGOS complied with 19.15.29 when remediation occurs.

The Pump Canyon SWD #001 is located in the San Juan Basin. The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin).

Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective.

The attached sitting criteria demonstrates that the area is not within a floodplain or wetlands nor over a karst and the depth to ground water is greater than 100' below grade surface.

After remediation was completed and the location was ready for final confirmation sampling, LOGOS conducted final confirmation sampling on June 4, 2024, as approved by the NMOCD and BLM. A NMOCD representative was not on-site for the final confirmation sampling however, Adeloye, Abiodun (Emmanual) was onsite for the final confirmation duration. However, Nelson Velez gave written approval for 500 sq ft sampling of (5) point composite samples.

LOGOS measured the quadrant areas approved by Emmanual onsite for sampling and 17 (5)- point confirmation samples were collected from the release area. The sampling area was 9,497 sq feet. No odor or staining was observed during the sampling event. The sample results were below regulatory standards in all constituents. Please refer to Table 1 for analytical results. LOGOS respectfully request closure of the remediation.



Sample Area
Each quardarnt represents 500 sqft where 1 (5) point composite sample was collected whitnessed by the BLM

PUMP CANYON SWD #1



		ble I ils Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 C1 B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Sample Area

Table 1

	1	.2/08/2023	Analytical	Results SEE	ATTTACHE	D TABLE		
Sample	Date	Sample	EPA Meth	od 8015	EPA Meth	od 8021	EPA Meth	od 300.0
Description	6/4/2024	Depth	GRO	DRO	ORO	Benzene	Total	Chlorides
		See	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
		below					(mg/kg)	
19.15.	29.13 (D) NMA	'C		1000 mg/kg		10 mg/kg	50	600
							mg/kg	mg/kg
19.1	5.29.12 NMAC		1000 ו	mg/kg				20,000
				2500 mg/kg				mg/kg

= Sample points to 0.3' bgs

The samples that were collected were placed into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.



Site Overview



SB 1



































SB17



Thank you,

Vanessa Fields

Vanessa Fields

Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218

Cell: 505-320-1243



30-045-26970

DATA SHEET FOR DEEP GROUND_BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC.	Location: Unit J Sec. 7 Twp 30 Rng 8
Name of Well/Wells or Pipeline Servi	ced PUMP CANYON SWD #1
	cps 2094w
Elevation 5972 Completion Date 2/15/89	Total Depth 460' Land Type* N/A
Casing, Sizes, Types & Depths	40'
If Casing is cemented, show amounts	& types usedN/A
If Cement or Bentonite Plugs have be	en placed, show depths & amounts used
Depths & thickness of water zones wi Fresh, Clear, Salty, Sulphur, Etc	th description of water when possible: 130' NO SAMPLE
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 415', 405', 395',	385', 375', 345', 335', 325', 275', 265'
Depths vent pipes placed: 465' Vent pipe perforations: 360'	DEGETTE
Remarks: gb #1	MAY31 1991
Memat V2. Bo "1	OIL CON. DIV
	DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

^{*}Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Received by OCD: 8/30/2024 3:52:38,PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** ---- 513---- Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

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

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

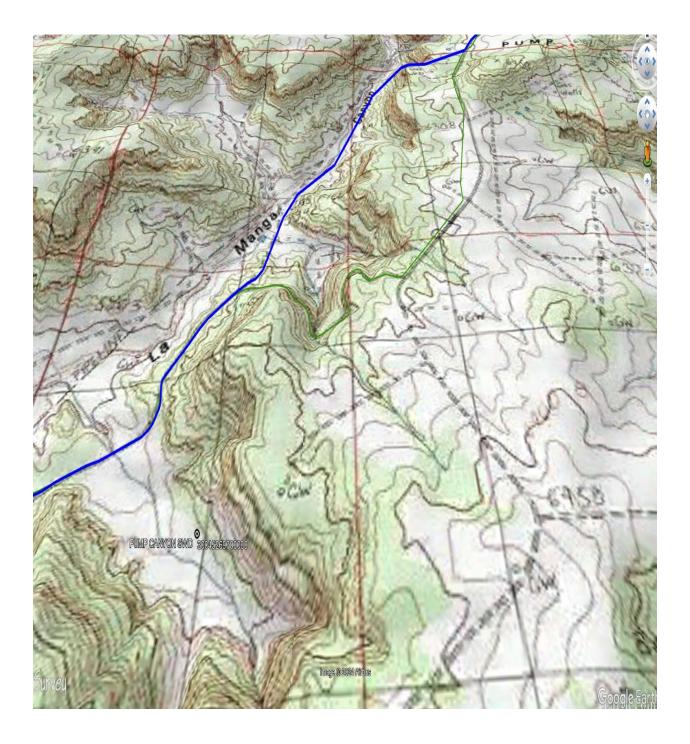
an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/30/2024 at 5:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2,000



SB1	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	113	322	886	451
SB2	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	138	377	515	332
SB3	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	172	425	597	1610
SB4	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	72.5	186	258.5	1010
SB5	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	68.7	152	220.7	466
				r		ļ
SB6	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	88	195	283	403
				T		<u> </u>
SB7	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	275	608	883	1350
			T	T		
SB8	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	168	411	579	1770
			T	T		
SB9	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	585	1390	1975	1860
			T .	Т .		
SB10	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	270	682	952	1480
0544	_			l a# a	 1	a., .,
SB11	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	196	489	685	1410
CD12	Danasas	Caralina Banas Oscaria	Discal Barra Organica	Oil Barras Organisa	Total	Chlavida
SB12	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	193	494	687	1590
SB13	Ponzono	Casalina Banga Organics	Diocal Bango Organics	Oil Pango Organics	Total	Chloride
3013	Benzene	Gasoline Range Organics ND	Diesel Range Organics 95.9	Oil Range Organics 265	360.9	
	ND	IND	95.9	203	300.9	1200
SB14	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
3014	ND	ND	71.7	199	270.7	944
	ND	ND	71.7	155	270.7	344
SB15	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
3513	ND	ND	39.2	129	168.2	574
	ND	ואט	33.2	123	100.2	3/4
SB16	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
3510	ND	ND	277	585	862	685
	140	עאו		303	002	003
SB17	Benzene	Gasoline Range Organics	Diesel Range Organics	Oil Range Organics	Total	Chloride
	ND	ND	297	812	1109	436
	ND	ND	231	012	1109	+30

Report to: Vanessa Fields







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Logos Resources

Project Name: Pump Canyon SWD #1

Work Order: E406017

Job Number: 12035-0114

Received: 6/4/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/12/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/12/24

Vanessa Fields 2010 Afton Place Farmington, NM 87401

Project Name: Pump Canyon SWD #1

Workorder: E406017

Date Received: 6/4/2024 11:56:00AM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/4/2024 11:56:00AM, under the Project Name: Pump Canyon SWD #1.

The analytical test results summarized in this report with the Project Name: Pump Canyon SWD #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Logos Resources	Project Name:	Pump Canyon SWD #1	Reported:
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Vanessa Fields	06/12/24 12:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB#1	E406017-01A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#2	E406017-02A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#3	E406017-03A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#4	E406017-04A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#5	E406017-05A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#6	E406017-06A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#7	E406017-07A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#8	E406017-08A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#9	E406017-09A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#10	E406017-10A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#11	E406017-11A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#12	E406017-12A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#13	E406017-13A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#14	E406017-14A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#15	E406017-15A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#16	E406017-16A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.
SB#17	E406017-17A	Soil	06/04/24	06/04/24	Glass Jar, 2 oz.



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#1 E406017-01

		12400017-01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
Analyte	Result	Liiiit	Dilu	uon	rrepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/05/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/05/24	
Toluene	ND	0.0250	1		06/05/24	06/05/24	
o-Xylene	ND	0.0250	1		06/05/24	06/05/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/05/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: NV			Batch: 2423095
Diesel Range Organics (C10-C28)	113	25.0	1		06/06/24	06/08/24	
Oil Range Organics (C28-C36)	322	50.0	1	ļ I	06/06/24	06/08/24	
Surrogate: n-Nonane		118 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT			Batch: 2423100
Chloride	451	40.0	2	2	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#2

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	g mg/kg		Analyst:	IY		Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/05/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/05/24	
Toluene	ND	0.0250	1		06/05/24	06/05/24	
o-Xylene	ND	0.0250	1		06/05/24	06/05/24	
p,m-Xylene	ND	0.0500	1	l	06/05/24	06/05/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		107 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		107 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423095
Diesel Range Organics (C10-C28)	138	25.0	1		06/06/24	06/08/24	
Oil Range Organics (C28-C36)	377	50.0	1	ļ.	06/06/24	06/08/24	
Surrogate: n-Nonane		116 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	<u>.</u>	Analyst:	DT		Batch: 2423100
Chloride	332	200	10	n <u>——</u>	06/06/24	06/06/24	

Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#3

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: I	Y		Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/05/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/05/24	
Toluene	ND	0.0250	1		06/05/24	06/05/24	
o-Xylene	ND	0.0250	1		06/05/24	06/05/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/05/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: I	Y		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/05/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		89.2 %	70-130		06/05/24	06/05/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: N	IV		Batch: 2423095
Diesel Range Organics (C10-C28)	172	25.0	1		06/06/24	06/08/24	
Oil Range Organics (C28-C36)	425	50.0	1		06/06/24	06/08/24	
Surrogate: n-Nonane		116 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: D)T		Batch: 2423100
		· · · · · · · · · · · · · · · · · · ·	10		06/06/24	06/06/24	·



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#4

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2423062
Benzene	ND	0.0250		1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250		1	06/05/24	06/06/24	
Toluene	ND	0.0250		1	06/05/24	06/06/24	
o-Xylene	ND	0.0250		1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500		1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	Ī	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.7 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2423095
Diesel Range Organics (C10-C28)	72.5	25.0		1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	186	50.0		1	06/06/24	06/08/24	
Surrogate: n-Nonane	·	121 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2423100
Chloride	1010	200	1	0	06/06/24	06/06/24	·

Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#5

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250		1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250		1	06/05/24	06/06/24	
Toluene	ND	0.0250		1	06/05/24	06/06/24	
o-Xylene	ND	0.0250		1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500		1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423095
Diesel Range Organics (C10-C28)	68.7	25.0		1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	152	50.0		1	06/06/24	06/08/24	
Surrogate: n-Nonane		116 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
Chloride	466	100		5	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#6

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2423062
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		108 %	70-130	06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	06/05/24	06/06/24	
Surrogate: Toluene-d8		107 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		108 %	70-130	06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.9 %	70-130	06/05/24	06/06/24	
Surrogate: Toluene-d8		107 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: NV		Batch: 2423095
Diesel Range Organics (C10-C28)	88.0	25.0	1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	195	50.0	1	06/06/24	06/08/24	
Surrogate: n-Nonane		117 %	50-200	06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: DT		Batch: 2423100
Chloride	403	200	10	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/202412:23:25PM

SB#7

Reporting											
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes				
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062				
Benzene	ND	0.0250	1	l	06/05/24	06/06/24					
Ethylbenzene	ND	0.0250	1	l	06/05/24	06/06/24					
Toluene	ND	0.0250	1	1	06/05/24	06/06/24					
o-Xylene	ND	0.0250	1	l	06/05/24	06/06/24					
p,m-Xylene	ND	0.0500	1	l	06/05/24	06/06/24					
Total Xylenes	ND	0.0250	1	l	06/05/24	06/06/24					
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24					
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130		06/05/24	06/06/24					
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24					
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	_	Analyst:	: IY		Batch: 2423062				
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	06/05/24	06/06/24					
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24					
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130		06/05/24	06/06/24					
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24					
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2423095				
Diesel Range Organics (C10-C28)	275	25.0	1	1	06/06/24	06/08/24					
Oil Range Organics (C28-C36)	608	50.0	1	l	06/06/24	06/08/24					
Surrogate: n-Nonane		115 %	50-200		06/06/24	06/08/24					
Anions by EPA 300.0/9056A	mg/kg	mg/kg	<u>.</u>	Analyst:	: DT		Batch: 2423100				
Chloride	1350	200	10	0	06/06/24	06/06/24					



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#8

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250	1	[06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	l	06/05/24	06/06/24	
Toluene	ND	0.0250	1	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	l	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	l	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	[06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.8 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423095
Diesel Range Organics (C10-C28)	168	25.0	1	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	411	50.0	1	l	06/06/24	06/11/24	
Surrogate: n-Nonane		119 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
Chloride	1770	200	10	0	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/202412:23:25PM

SB#9

	_	Reporting	_				
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250	1	l	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	Į.	06/05/24	06/06/24	
Toluene	ND	0.0250	1	Į.	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	Į.	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	Į.	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	<u>.</u>	Analyst: NV	r		Batch: 2423095
Diesel Range Organics (C10-C28)	585	125	5	;	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	1390	250	5	5	06/06/24	06/11/24	
Surrogate: n-Nonane		115 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT			Batch: 2423100
Chloride	1860	200	10	0	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#10

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250	1	l	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	l	06/05/24	06/06/24	
Toluene	ND	0.0250	1	l	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	l	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.2 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst: IY			Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		88.2 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV				Batch: 2423095
Diesel Range Organics (C10-C28)	270	50.0	2	2	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	682	100	2	2	06/06/24	06/11/24	
Surrogate: n-Nonane		119 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
		200	10		06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#11

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Benzene	ND	0.0250	1	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.6 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		105 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV				Batch: 2423095
Diesel Range Organics (C10-C28)	196	25.0	1	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	489	50.0	1	1	06/06/24	06/11/24	
Surrogate: n-Nonane		122 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
	1410	200	1		06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#12

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/06/24	
Toluene	ND	0.0250	1		06/05/24	06/06/24	
o-Xylene	ND	0.0250	1		06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene	·	111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		107 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.9 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		107 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2423095	
Diesel Range Organics (C10-C28)	193	25.0	1		06/06/24	06/11/24	
Oil Range Organics (C28-C36)	494	50.0	1		06/06/24	06/11/24	
Surrogate: n-Nonane		124 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
	1590	200	10		06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/202412:23:25PM

SB#13

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: Γ	Y		Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/06/24	
Toluene	ND	0.0250	1		06/05/24	06/06/24	
o-Xylene	ND	0.0250	1		06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		109 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: I	Y		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		109 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		108 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: N	IV		Batch: 2423095
Diesel Range Organics (C10-C28)	95.9	25.0	1		06/06/24	06/11/24	
Oil Range Organics (C28-C36)	265	50.0	1		06/06/24	06/11/24	
Surrogate: n-Nonane		124 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: D	T		Batch: 2423100
	1200	200	10		06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#14

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2423062
Benzene	ND	0.0250	1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1	06/05/24	06/06/24	
Toluene	ND	0.0250	1	06/05/24	06/06/24	
o-Xylene	ND	0.0250	1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130	06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		110 %	70-130	06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130	06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: NV		Batch: 2423095
Diesel Range Organics (C10-C28)	71.7	25.0	1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	199	50.0	1	06/06/24	06/11/24	
Surrogate: n-Nonane		128 %	50-200	06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2423100
	944	200	10	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#15

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2423062
Benzene	ND	0.0250		1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250		1	06/05/24	06/06/24	
Toluene	ND	0.0250		1	06/05/24	06/06/24	
o-Xylene	ND	0.0250		1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500		1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.7 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2423095
Diesel Range Organics (C10-C28)	39.2	25.0		1	06/06/24	06/11/24	
Oil Range Organics (C28-C36)	129	50.0		1	06/06/24	06/11/24	
Surrogate: n-Nonane		122 %	50-200		06/06/24	06/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2423100
		·	· ·	2	06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#16

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Benzene	ND	0.0250	1		06/05/24	06/06/24	
Ethylbenzene	ND	0.0250	1		06/05/24	06/06/24	
Toluene	ND	0.0250	1		06/05/24	06/06/24	
o-Xylene	ND	0.0250	1		06/05/24	06/06/24	
p,m-Xylene	ND	0.0500	1		06/05/24	06/06/24	
Total Xylenes	ND	0.0250	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		104 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0	1		06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		111 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		91.2 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		104 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423095
Diesel Range Organics (C10-C28)	277	25.0	1		06/06/24	06/08/24	
Oil Range Organics (C28-C36)	585	50.0	1	ļ.	06/06/24	06/08/24	
Surrogate: n-Nonane		119 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	<u>.</u>	Analyst:	DT		Batch: 2423100
Chloride	685	40.0	2		06/06/24	06/06/24	



Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

SB#17

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Benzene	ND	0.0250		1	06/05/24	06/06/24	
Ethylbenzene	ND	0.0250		1	06/05/24	06/06/24	
Toluene	ND	0.0250		1	06/05/24	06/06/24	
o-Xylene	ND	0.0250		1	06/05/24	06/06/24	
p,m-Xylene	ND	0.0500		1	06/05/24	06/06/24	
Total Xylenes	ND	0.0250		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2423062
Gasoline Range Organics (C6-C10)	ND	20.0		1	06/05/24	06/06/24	
Surrogate: Bromofluorobenzene		113 %	70-130		06/05/24	06/06/24	
Surrogate: 1,2-Dichloroethane-d4		89.3 %	70-130		06/05/24	06/06/24	
Surrogate: Toluene-d8		106 %	70-130		06/05/24	06/06/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423095
Diesel Range Organics (C10-C28)	297	25.0		1	06/06/24	06/08/24	
Oil Range Organics (C28-C36)	812	50.0		1	06/06/24	06/08/24	
Surrogate: n-Nonane		119 %	50-200		06/06/24	06/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2423100
-	436	40.0	· · · · · · · · · · · · · · · · · · ·	2	06/06/24	06/06/24	<u>"</u>



Logos ResourcesProject Name:Pump Canyon SWD #1Reported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

Farmington NM, 87401		Project Manage	r: Va	anessa Fields				6/1	2/2024 12:23:25PN
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423062-BLK1)						I	Prepared: 0	6/05/24 Ana	lyzed: 06/05/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			
LCS (2423062-BS1)						I	Prepared: 00	6/05/24 Ana	lyzed: 06/05/24
Benzene	2.16	0.0250	2.50		86.2	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.1	70-130			
Toluene	2.35	0.0250	2.50		94.1	70-130			
o-Xylene	2.41	0.0250	2.50		96.2	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.5	70-130			
Total Xylenes	7.23	0.0250	7.50		96.4	70-130			
Surrogate: Bromofluorobenzene	0.557		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS Dup (2423062-BSD1)						I	Prepared: 00	6/05/24 Ana	lyzed: 06/05/24
Benzene	2.25	0.0250	2.50		90.0	70-130	4.22	23	
Ethylbenzene	2.45	0.0250	2.50		97.8	70-130	4.99	27	
Toluene	2.45	0.0250	2.50		98.0	70-130	4.00	24	
o-Xylene	2.61	0.0250	2.50		104	70-130	8.08	27	
p,m-Xylene	5.22	0.0500	5.00		104	70-130	7.88	27	
Total Xylenes	7.83	0.0250	7.50		104	70-130	7.95	27	
Surrogate: Bromofluorobenzene	0.573		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			

0.500

70-130



Surrogate: Toluene-d8

0.533

Logos ResourcesProject Name:Pump Canyon SWD #1Reported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Analy	ysı.	1

Analyte R	esult	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
n	ng/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2423062-BLK1)						Prepared: 06	5/05/24 Ana	alyzed: 06/05/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.545		0.500	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500	91.3	70-130			
Surrogate: Toluene-d8	0.527		0.500	105	70-130			
LCS (2423062-BS2)						Prepared: 06	5/05/24 Ana	alyzed: 06/05/24
Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	115	70-130			
Surrogate: Bromofluorobenzene	0.561		0.500	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500	91.9	70-130			
Surrogate: Toluene-d8	0.535		0.500	107	70-130			
LCS Dup (2423062-BSD2)						Prepared: 06	5/05/24 Ana	alyzed: 06/05/24
Gasoline Range Organics (C6-C10)	58.6	20.0	50.0	117	70-130	1.65	20	
Surrogate: Bromofluorobenzene	0.570		0.500	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.450		0.500	90.0	70-130			
Surrogate: Toluene-d8	0.534		0.500	107	70-130			



Logos ResourcesProject Name:Pump Canyon SWD #1Reported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Vanessa Fields6/12/2024 12:23:25PM

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	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	/kg %	%	%	%	Notes
Blank (2423095-BLK1)							Prepared: 0	6/06/24 Anal	yzed: 06/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.5		50.0		121	50-200			
LCS (2423095-BS1)							Prepared: 0	6/06/24 Anal	yzed: 06/08/24
Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2423095-MS1)				Source:	E406017-	08	Prepared: 0	6/06/24 Anal	yzed: 06/08/24
Diesel Range Organics (C10-C28)	476	25.0	250	168	123	38-132			
Surrogate: n-Nonane	60.0		50.0		120	50-200			
Matrix Spike Dup (2423095-MSD1)				Source:	E406017-	08	Prepared: 0	6/06/24 Anal	yzed: 06/08/24
Diesel Range Organics (C10-C28)	454	25.0	250	168	114	38-132	4.83	20	
Surrogate: n-Nonane	59.1		50.0		118	50-200			



	<u>-</u>	•	
Logos Resources	Project Name:	Pump Canyon SWD #1	Reported:
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	6/12/2024 12:23:25PM
	Analyst: DT		

		Anions	by EPA 3	00.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423100-BLK1)							Prepared: 0	6/06/24 Ar	nalyzed: 06/06/24
Chloride	ND	20.0							
LCS (2423100-BS1)							Prepared: 0	6/06/24 Ar	nalyzed: 06/06/24
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2423100-MS1)				Source:	E406017-	03	Prepared: 0	6/06/24 Ar	nalyzed: 06/06/24
Chloride	1910	200	250	1670	94.7	80-120			
Matrix Spike Dup (2423100-MSD1)				Source:	E406017-	03	Prepared: 0	6/06/24 Ar	nalyzed: 06/06/24
Chloride	1900	200	250	1670	94.3	80-120	0.0551	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Logos ResourcesProject Name:Pump Canyon SWD #12010 Afton PlaceProject Number:12035-0114Reported:Farmington NM, 87401Project Manager:Vanessa Fields06/12/24 12:23

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Number

2

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6

Attention: Vanessa Fillds

City, State, Zip Farmingth nin 8742 Phone: 505 320 1243

Email: VFi elds 2/10905 resources lc. com Igrani low logos resources lc. com

Address: 2010 Afton Pl.

Release Information

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Date Sampled

1614191

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Lesources

oject: Pump Knym JUD#1

ty, State, Zip Farminstan nm 87402

nail: Vfields Dlogsresources Ic. com

Matrix

Sample ID

oject Manager: Vancasa Fields ddress: 2010 AFton Pl

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Additional Instructions:				(2					
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Relinquished by: (Signature)	Date 5	5 194124	Received by: (Signature)	Date On OH	24 56	Lab Use Only Received on ice: (Y) N				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C 4				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludg	e, A - Aqueous, O -	Other		Container	Type: g - glass, p	o - poly/plastic, ag - amber glass, v - VOA				
Note: Samples are discarded 30 da	vs after results a	re reported unless of	ther arrangements are made. Ha	zardous samoles w	ill be returned to	client or disposed of at the client expense. The report for the analysis of the above				

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Lab Use Only

VOC by 8260

100 Number 119

Analysis and Method

Chloride 300.0 BGDOC - NM

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samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



e amount paid for on the report.

Page 48 of 66

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Logos Resources	Date Received:	06/04/24	11:56		Work Order ID:	E406017
Phone:	(505) 787-9100	Date Logged In:	06/04/24	12:27		Logged In By:	Angelina Pineda
Email:	vfields@logosresourcesllc.com	Due Date:		17:00 (5 day TAT)		88	g
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Lacey Gr	ranillo		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	ll samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	ts/Resolution
С1- Т	i.e, 15 minute hold time, are not included in this disucssic	on.				comment	S/ IXCSOIUTION
	Furn Around Time (TAT) ac COC indicate standard TAT, or Expedited TAT?		Yes				
			168				
Sample C	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
-							
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
-	, were custody/security seals intact?		NA				
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container_						
_	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are n	on-VOC samples collected in the correct containers	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal	<u>bel</u>						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected? follectors name?		Yes				
	Preservation		Yes				
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	ecservea.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix		110				
	the sample have more than one phase, i.e., multipha	sa?	No				
	, does the COC specify which phase(s) is to be analy		NA				
-		yzcu:	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborato	•	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab: NA			
Client Ir	<u>nstruction</u>						
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	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals	Chloride 300.0	BGDOC - NM	TCEQ 1						Remarks	
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15:06 - S	1 5	B-4)	8	8															
10:01 5	1 5	13 th	9	9		1													
10:111 - 9	1 5	分开	10	10		1	1												
Additional Instructions:				(7)												
I, (field sampler), attest to the validity and authorized fraud are	enticity of this sample and may be grounds for	I am aware that legal action.	tampering with or intentionally mislabelling the	e sample loca	tion/	/											on ice the day	they are sampl	ed or received
Relimination (Signature)	Date / 53	94174	Received by: (Signature)	Date	1256	Time	(0		Recei	hav	on ic	0.	Lal		e On	ly			
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A	- Aqueous, O - Other		1	Container	Type	g - gl	ass, r) - po	lv/pla	stic.	ag - a	mber	plass	. V - \	VOAT				
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sample	s is applicable only	Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.										nount	paid I	for or	n the	report			

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samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Cc: Robert Bixler <\(\frac{r\text{bixler} @logosresourcesllc.com}{}\); Etta Trujillo <\(\frac{etrujillo@logosresourcesllc.com}{}\); Etta Trujillo <\(\frac{etrujillo@logosresourcesllc.com}{}\); Compare ourcesllc.com <\(\frac{etrujillo@logosresourcesllc.com}{}\); Etta Trujillo <\(\frac{etrujillo@logosresourcesllc.com}{}\); Compare ourcesllc.com <\(\frac{etrujillo@logosresourcesllc.com}{}\); Etta Trujillo <\(\frac{etrujillo@logosresourcesllc.com}{}\); Etta Tr

Subject: [EXTERNAL] LOGOS Major Release 220BBLS produced water Pump Canyon SWD #001

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good afternoon Emmanual,

Per our conversation. LOGOS had a 220 BBL produced water release at the Pump Canyon SWD #001 today (March 4, 2024) at 9:00 am. The release was due to a pump failure.

All liquids remained on location and all free liquids have been disposed of.

LOGOS will submit an Initial MUEV by 9:00am on March 5, 2024

Please let me know if you have any questions.

30-045-26970 PUMP CANYON SWD #001

General Well Information

Operator: [289408] LOGOS OPERATING, LLC

Status: Active

Well Type: Salt Water Disposal

Work Type: New
Direction: Vertical
Multi-Lateral: No
Mineral Owner: Federal
Surface Owner: Federal

Surface Location: J-07-30N-08W 1725 FSL 1850 FEL

Lat/Long: 36.8228951,-107.7140961 NAD83

GL Elevation: 5972

Vanessa Fields Regulatory Manager Email: <u>vfields@logosresourcesllc.com</u>

Office: 505-787-2218 Cell: 505-320-1243



From: Vanessa Fields

Sent: Saturday, June 1, 2024 9:48 AM

To: Adeloye, Abiodun A <aadeloye@blm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Krista McWilliams <kmcwilliams@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001 Sampling Notice incident ID (n#) nAPP2406454812

Good morning,

Final confirmation sampling has been scheduled for Tuesday June 4, 2024, at 9:30 am.

Please let me know if you have any questions.

Thank you,

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



From: Vanessa Fields

Sent: Monday, March 4, 2024 6:06 PM
To: Adeloye, Abiodun A aadeloye@blm.gov

Cc: Robert Bixler <ra>line | Sixler @logosresources||c.com; Bryan Lovato blovato@logosresources||c.com; Etta Trujillo etrujillo@logosresources||c.com; Lacey Granillo

<LGranillo@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001

Good evening Emmanual,

Please find attached the MUE for the Pump Canyon SWD #001.

A sundry will be submitted as well.

Thank you,

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



From: Adeloye, Abiodun A aadeloye@blm.gov>

Sent: Monday, March 4, 2024 4:00 PM

To: Vanessa Fields < vfields@logosresourcesllc.com>

Cc: Robert Bixler <\frac{rbixler@logosresourcesllc.com}{}; Bryan Lovato <\frac{blovato@logosresourcesllc.com}{}; Etta Trujillo <\frac{etrujillo@logosresourcesllc.com}{}; Lacey Granillo

<lgranillo@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 220BBLS produced water Pump Canyon SWD #001

Thanks, Vanessa for the notification. I will visit the location tomorrow morning. Please fill out the MUE Form and provide as much details as possible and include any photos if available and send it to me and submit a Sundry Notice as well.

Thank you.

Abiodun Adeloye (Emmanuel) Natural Resources Specialist (NRS) 6251 College Blvd., Suite A Farmington, NM 87402

Office: 505-564-7665 Mobile: 505-635-0984

From: Vanessa Fields < vfields@logosresourcesllc.com>

Sent: Monday, March 4, 2024 3:05 PM
To: Adeloye, Abiodun A <aadeloye@blm.gov>

Vanessa Fields

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Sent: Tuesday, June 4, 2024 3:28 PM

To: Vanessa Fields

Cc: Adeloye, Abiodun A; Robert Bixler; Bryan Lovato; Etta Trujillo; Lacey Granillo; Krista

McWilliams

Subject: Re: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #

001 Sampling Notice incident ID (n#) nAPP2406454812 Variance for Sampling

Good afternoon Vanessa,

Per our conversation this morning, your request to increase the sampling frequency from 200 to 500 square feet is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/





Re: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001 Sampling Notice incident ID (n#) nAPP2406454812 Variance for Sampling Notification

From Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Date Mon 6/3/2024 2:44 PM

To Vanessa Fields <vfields@logosresourcesllc.com>; Adeloye, Abiodun A <aadeloye@blm.gov>

Cc Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <lgranillo@logosresourcesllc.com>; Krista McWilliams
 <kmcwilliams@logosresourcesllc.com>

Good afternoon Vanessa,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



Released to Imaging: 11/4/2024 11:45:06 AM

LOGOS is requesting a variance to 19.15.29.13D.1C to allow LOGOS to collect 500 square feet composite samples instead of the standard 200 square feet. This request is based on the immediate remedial efforts undertaken during the release of produced water, and the fact that the depth to groundwater is greater than 100 feet, according to the cathodic report from Pump Canyon SWD #001.

Thank you for your time and consideration in this matter.

Thank you, Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



From: Vanessa Fields

Sent: Monday, June 3, 2024 2:44 PM

To: Adeloye, Abiodun A <aadeloye@blm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Etta Trujillo ctrujillo@logosresourcesllc.com; Lacey Granillo ctrujillo@logosresourcesllc.com; Krista McWilliams

<kmcwilliams@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001 Sampling Notice incident ID (n#) nAPP2406454812 Variance for Sampling Notification

Hi Nelson,

LOGOS is seeking a variance for the two-business day notification per 19.15.29 12D1A. The notification has been submitted already through E-Permitting.

Thank you very much for your consideration.

Thank you,

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



From: Vanessa Fields

Sent: Saturday, June 1, 2024 9:48 AM

To: Adeloye, Abiodun A <aadeloye@blm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

<etrujillo@logosresourcesllc.com>; Lacey Granillo < LGranillo@logosresourcesllc.com>; Krista McWilliams

<kmcwilliams@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001 Sampling Notice

incident ID (n#) nAPP2406454812

Good morning,

Final confirmation sampling has been scheduled for Tuesday June 4, 2024, at 9:30 am.

Please let me know if you have any questions.

Thank you,

Vanessa Fields

Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



From: Vanessa Fields

Sent: Monday, March 4, 2024 6:06 PM

To: Adeloye, Abiodun A <aadeloye@blm.gov>

<etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 240 BBLS produced water Pump Canyon SWD #001

Good evening Emmanual,

Please find attached the MUE for the Pump Canyon SWD #001.

A sundry will be submitted as well.

Thank you,

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243 Released to Imaging: 11/4/2024 11:45:06 AM



From: Adeloye, Abiodun A <aadeloye@blm.gov>

Sent: Monday, March 4, 2024 4:00 PM

To: Vanessa Fields <ufields@logosresourcesllc.com>

Cc: Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blowato@logosresourcesllc.com>; Etta Trujillo

<etrujillo@logosresourcesllc.com>; Lacey Granillo < |granillo@logosresourcesllc.com>

Subject: RE: [EXTERNAL] LOGOS Major Release 220BBLS produced water Pump Canyon SWD #001

Thanks, Vanessa for the notification. I will visit the location tomorrow morning. Please fill out the MUE Form and provide as much details as possible and include any photos if available and send it to me and submit a Sundry Notice as well. Thank you.

Abiodun Adeloye (Emmanuel)
Natural Resources Specialist (NRS)
6251 College Blvd., Suite A
Farmington, NM 87402

Office: 505-564-7665 Mobile: 505-635-0984

From: Vanessa Fields < vfields@logosresourcesllc.com>

Sent: Monday, March 4, 2024 3:05 PM

To: Adeloye, Abiodun A <aadeloye@blm.gov>

Cc: Robert Bixler < rbixler@logosresourcesllc.com >; Bryan Lovato < blovato@logosresourcesllc.com >; Etta Trujillo

<etrujillo@logosresourcesllc.com>; Lacey Granillo <|granillo@logosresourcesllc.com>

Subject: [EXTERNAL] LOGOS Major Release 220BBLS produced water Pump Canyon SWD #001

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good afternoon Emmanual,

Received by OCD: 8/30/2024 3:52:38 PM

Per our conversation. LOGOS had a 220 BBL produced water release at the Pump Canyon SWD #001 today (March 4, 2024) at 9:00 am. The release was due to a pump failure.

All liquids remained on location and all free liquids have been disposed of.

LOGOS will submit an Initial MUEV by 9:00am on March 5, 2024

Please let me know if you have any questions.

30-045-26970 PUMP CANYON SWD #001

General Well Information

Operator: [289408] LOGOS OPERATING, LLC

Status: Active

Well Type: Salt Water Disposal

Work Type: New Direction: Vertical Multi-Lateral: No

Mineral Owner: Federal Surface Owner: Federal

Surface Location: J-07-30N-08W 1725 FSL 1850 FEL

Lat/Long: 36.8228951,-107.7140961 NAD83

GL Elevation: 5972

Vanessa Fields Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218 Cell: 505-320-1243



Released to Imaging: 11/4/2024 11:45:06 AM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

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

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

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

QUESTIONS

Action 379734

QUESTIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	379734
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2406454812
Incident Name	NAPP2406454812 PUMP CANYON SWD #001 @ 30-045-26970
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-045-26970] PUMP CANYON SWD #001

Location of Release Source								
Please answer all the questions in this group.								
Site Name	PUMP CANYON SWD #001							
Date Release Discovered	03/04/2024							
Surface Owner	Federal							

ncident 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 Motor Produced Water Released: 240 BBL Recovered: 220 BBL Lost: 20 BBL.		
Is the concentration of chloride in the produced water >10,000 mg/l	No		
Condensate Released (bbls) Details	Not answered.		
Natural Gas Vented (Mcf) Details	Not answered.		
Natural Gas Flared (Mcf) Details	Not answered.		
Other Released Details	Not answered.		
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	N/A		

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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 379734

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408 Action Number: 379734 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	rafaty hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or

Name: Vanessa Fields Title: Regulatory Manager

Email: vfields@logosresourcesllc.com

I hereby agree and sign off to the above statement

local laws and/or regulations.

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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 379734

QUESTIONS (continued)

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	379734
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Attached Document	
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 300 and 500 (ft.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must b	be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission Yes			
Attach a comprehensive report demonstrating the lateral and vertical extents of soil	contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully deline:	pated Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for	r each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	1860		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1975		
GRO+DRO (EPA SW-846 Method 8015M)	585		
BTEX (EPA SW-846 Method 8021B or 8260	OB) 0		
Benzene (EPA SW-846 Method 8021B or 8260	0B) 0		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediat	des completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, tion.		
On what estimated date will the remediation commence 03/04/2024			
On what date will (or did) the final sampling or liner inspection occur	06/04/2024		
On what date will (or was) the remediation complete(d)	06/04/2024		
What is the estimated surface area (in square feet) that will be reclaim	ned 9042		
What is the estimated volume (in cubic yards) that will be reclaimed	3		
What is the estimated surface area (in square feet) that will be remedi	iated 9042		
What is the estimated volume (in cubic yards) that will be remediated	3		
These estimated dates and measurements are recognized to be the best guess or ca	alculation 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	y adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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QUESTIONS (continued)

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	379734
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #1 [fEEM0112334691]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement

Name: Vanessa Fields Title: Regulatory Manager

Email: vfields@logosresourcesllc.com

Date: 08/30/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 379734

QUESTIONS (continued)

Operator:	OGRID:	
LOGOS OPERATING, LLC	289408	
2010 Afton Place	Action Number:	
Farmington, NM 87401	379734	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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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Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded 349944		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/04/2024	
What was the (estimated) number of samples that were to be gathered	20	
What was the sampling surface area in square feet	9000	

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	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	9042			
What was the total volume (cubic yards) remediated	3			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	9042			
What was the total volume (in cubic yards) reclaimed	3			
Summarize any additional remediation activities not included by answers (above)	See attached remediation report			

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

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

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Title: Regulatory Manager
Email: vfields@logosresourcesllc.com
Date: 08/30/2024

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QUESTIONS	(continued)
QUESTIONS!	COH I III I I I I C C I I

Operator:	OGRID:	
LOGOS OPERATING, LLC	289408	
2010 Afton Place	Action Number:	
Farmington, NM 87401	379734	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

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CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	379734
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created	Condition	Condition
Ву		Date
nvelez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	11/4/2024