

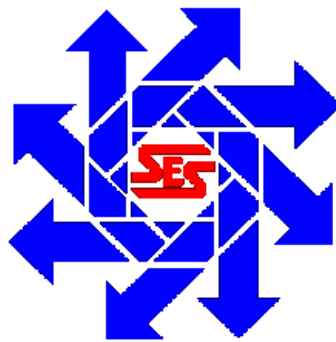
# Durango Midstream

## **EOG 6" PVC**

### Closure Report

Unit Letter: M, Section 36, T19S, R24E  
Eddy County, New Mexico  
nAPP2319434216

December 19, 2023



Prepared for:  
Durango Midstream  
47 Conoco Road.  
Maljamar, NM 88264

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

## Company Contacts

Representative	Company	Telephone	E-mail
Guadalupe Carrasco	Durango Midstream	575-725-0787	gcarrasco@durangomidstream.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

## Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Durango Midstream to perform site remediation on the **EOG 6" PVC**. All impacted areas at the site were remediated in accordance with NMOCD guidelines respectively to close all open remediation permits.

- Incident ID: nAPP2319434216  
A C-141 Initial notification was filed with NMOCD regarding an incident that occurred on 06/01/2023, whereby possible line damage during construction of pipeline. Release resulted when EOG was flushing abandoned line with fresh water. Approximately 60 bbls released with 30 bbls recovered.

## Surface and Ground Water

According to research of The New Mexico Office of the State Engineer there were no records for Township 19S, Range 24E, and Section 36, however the records indicate on September 28, 1966, a well with the identifier POD RA 05284 was drilled 282 feet below the surface of the ground. With a depth of water 273 feet bgs. The POD is located approximately 0.55 miles southeast of the affected site. This data does not qualify for ranking purposes.

## Characterization

This has been remediated in accordance the NMOCD published guidelines (July 24, 2018). Furthermore, all pasture impact was remediated in accordance with Spill Rule 19.15.29 NMAC, and BLM guidelines.

The site ranking and soil screening levels as presented in the table below:

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

\*Or other test methods approved by the division.

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

\*\*\*This applies to releases of produced water or other fluids, which may contain chloride.  
[19.15.29.12 NMAC - N, 8/14/2018]

### Work Performed

SESI personnel arrived at the site on July 19, 2023. They took photographs of the place and created maps of the spill sites and the affected area(s). A total of nine soil samples at surface level and two soil samples at depths of 5 and 6 feet below ground surface (bgs) were collected and appropriately packaged, preserved, and transported to Cardinal Laboratories using a Chain of Custody for analysis of the following: Chloride (Method SM4500Cl-B), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B) and TPH 8015M. The sampling results are summarized in the table below:

Durango Midstream									
EOG 6" PVC									
Soil Sample Results: Cardinal Laboratories 07/19/2023									
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO > C10-C28 (mg/kg)	EXT DRO >C28-C36 (mg/kg)
SP-1,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-2,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-3,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-4,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-5,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-6,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-7,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-8,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-9,	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-10, 5 ft	1220	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
SP-10, 6 ft	1070	<0.050	<0.050	<0.050	10.6	10.6	592	10300	1610

On July 24, 2023, SESI people conducted an onsite visit. Excavation at sample point 11 was hindered by the existence of a probable polyline. Consequently, the decision was made to abandon the sample location and proceed to sample point 12. At this new location, three soil samples were successfully taken from depths ranging from 7 to 9 feet below the ground surface (bgs). SP -11 is not included in this table because a pipeline was encountered at a depth of 6.5 feet and no sample was gathered. The soil samples were appropriately packaged, preserved, and transported to Cardinal Laboratories using a Chain of Custody for analysis of the following: Chloride (Method SM4500Cl-B), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B) and TPH 8015M. The sampling results are summarized in the table below:

Durango Midstream									
EOG 6" PVC									
Soil Sample Results: Cardinal Laboratories 07/24/2023									
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO > C10-C28 (mg/kg)	EXT DRO >C28-C36 (mg/kg)
SP 12 7'	4800	1.81	6.09	4.24	7.18	19.3	321	1050	<100
SP 12 8'	5100	1.27	20.7	40.7	71.4	134	2500	19700	3220

Durango Midstream									
EOG 6" PVC									
Soil Sample Results: Cardinal Laboratories 07/24/2023									
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO > C10-C28 (mg/kg)	EXT DRO >C28-C36 (mg/kg)
SP 12 9'	2360	25.9	141	121	181	469	6180	20800	3250

SESI personnel arrived at the site on September 22, 2023, and collected four (4) composite samples of soil from the walls and a bottom hole sample which was taken at the SP 12 at a depth of 10 ft. referenced above. All soil samples were appropriately packaged, preserved, and transported to Cardinal Laboratories using a Chain of Custody for analysis of the following: Chloride (Method SM4500Cl-B), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B) and TPH 8015M. The sampling results are summarized in the table below:

Durango Midstream									
EOG 6" PVC									
Soil Sample Results: Cardinal Laboratories 09/22/2023									
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO > C10-C28 (mg/kg)	EXT DRO >C28-C36 (mg/kg)
CS South	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
CS North	32	<0.050	0.08	0.309	1.6	1.99	38.4	1730	278
CS East Wall	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.6	<10.0
CS West	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
CS Bottom (SP 12 10')	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	107	<10.0

SESI personnel arrived at the site on November 15, 2023, and collected one north wall composite sample. The soil sample was properly packaged, preserved, and transported to Cardinal Laboratories via Chain of Custody for analyses of the following: Chloride (Method SM4500Cl-B), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B) and TPH 8015M. The sampling results are summarized in the table below:

Durango Midstream									
EOG 6" PVC									
Soil Sample Results: Cardinal Laboratories 11/15/2023									
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO > C10-C28 (mg/kg)	EXT DRO >C28-C36 (mg/kg)
North Wall Comp Sample	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Conclusion

Remedial actions at this site have all been performed in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements. The affected areas were excavated and then backfilled with clean material from an offsite facility. Approximately 112 yards of contaminated soil was transported to J-Dan LandFarm.

As a result, we respectfully submit this closure report for your consideration and approval.

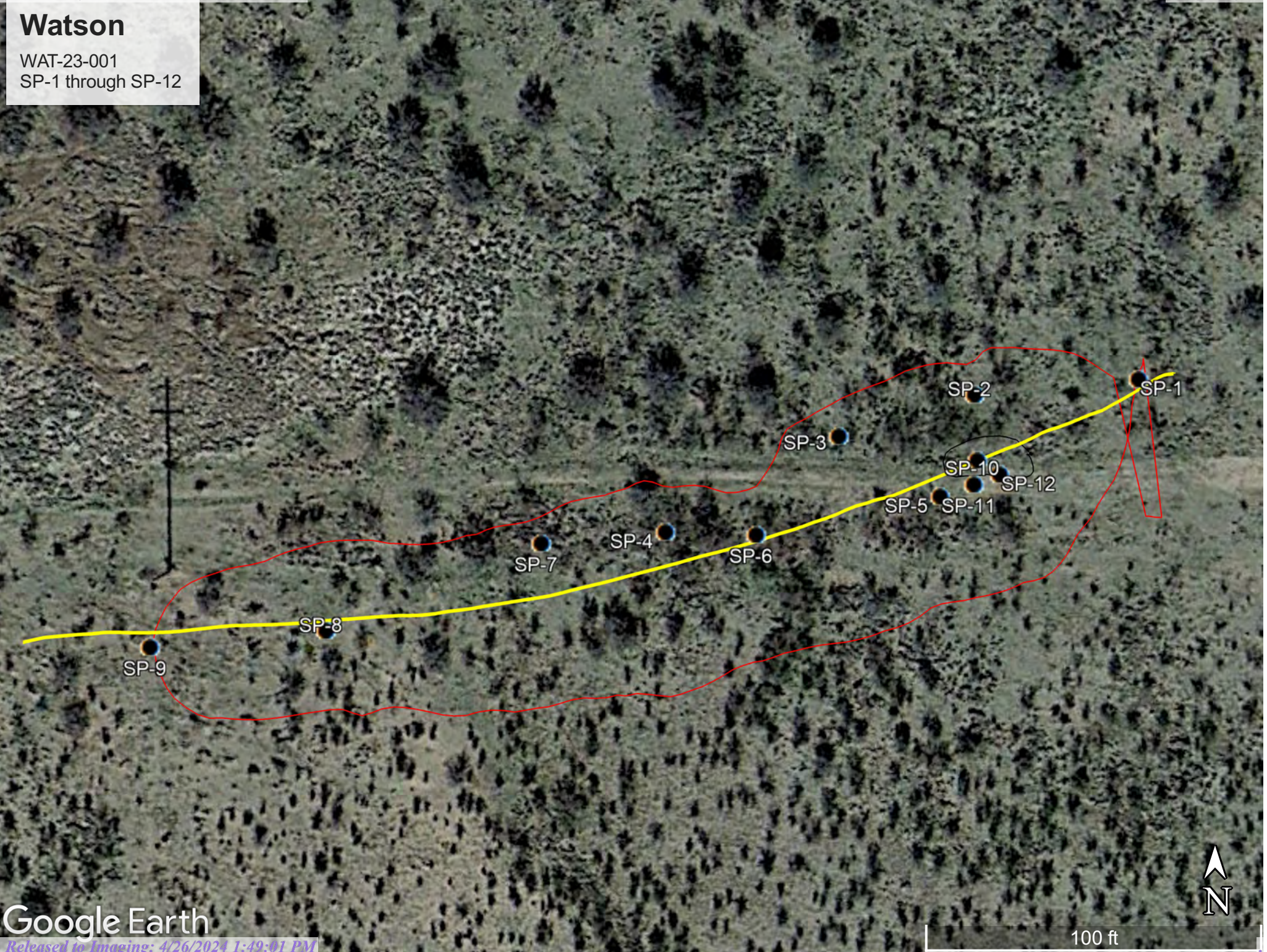
#### Supplemental Documentation

- Document 1: Vicinity Map
- Document 2: OSE Information
- Document 3: NMOCD Oil and Gas Map
- Document 4: BLM Cave Karst Map
- Document 5: FEMA Floodplain Map
- Document 6: Photographs of compromised areas and repairs
- Document 7: Lab Analysis
- Document 8: Correspondence



# Watson

WAT-23-001  
SP-1 through SP-12





# Durango Midstream

EOG 6" PVC  
Vicinity Map

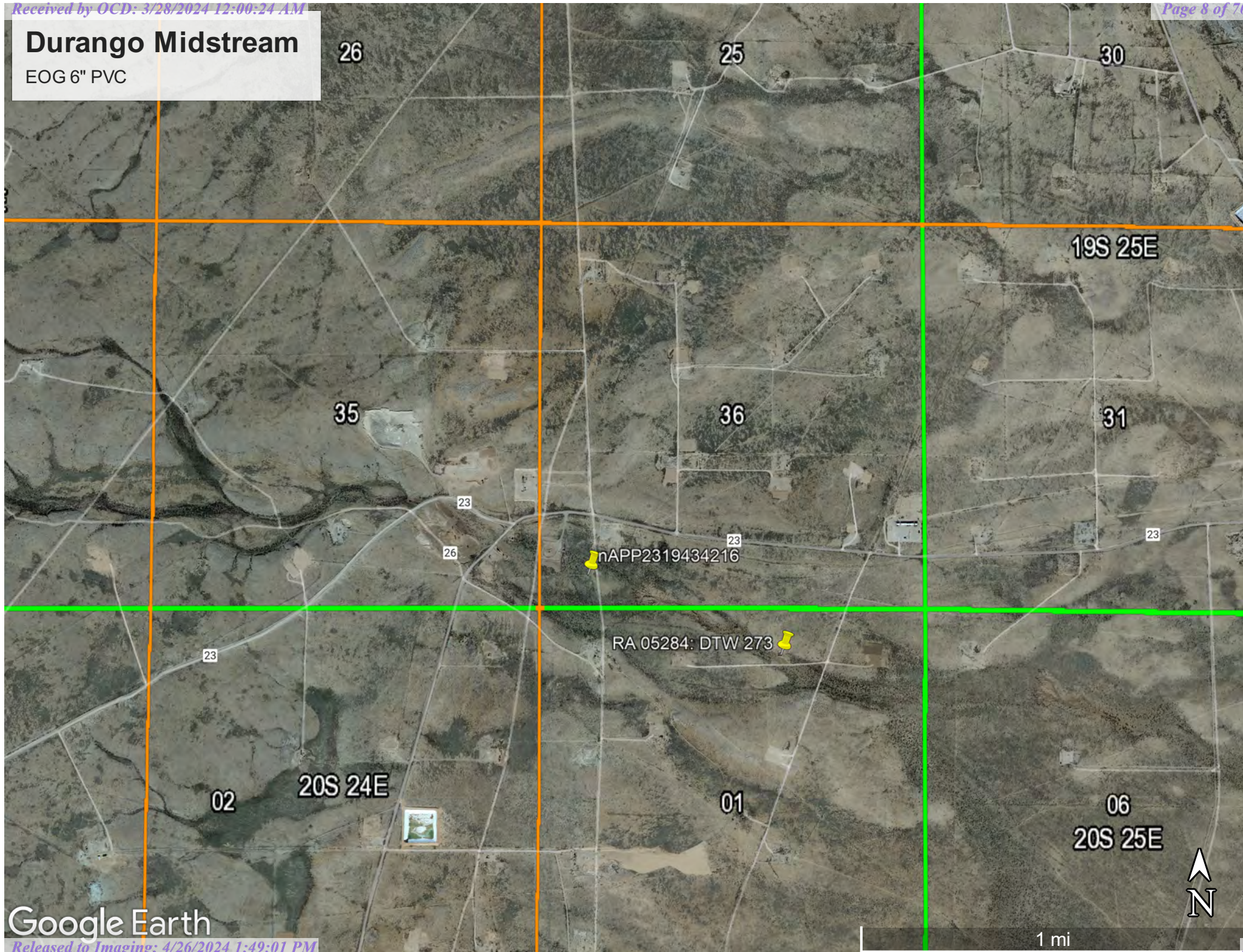


Google Earth



# Durango Midstream

EOG 6" PVC



Google Earth





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">RA 04245</a>	RA	ED		4	4	35	19S	24E		542005	3608363*	300		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

### Basin/County Search:

County: Eddy

### PLSS Search:

Section(s): 35

Township: 19S

Range: 24E

\*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.

12/26/23 12:15 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">RA 05284</a>	RA	ED		1	2	01		20S	24E	543220	3607973*	282	273	9

Average Depth to Water: **273 feet**

Minimum Depth: **273 feet**

Maximum Depth: **273 feet**

Record Count: 1

### Basin/County Search:

**County:** Eddy

### PLSS Search:

**Section(s):** 1-2

**Township:** 20S

**Range:** 24E

\*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.

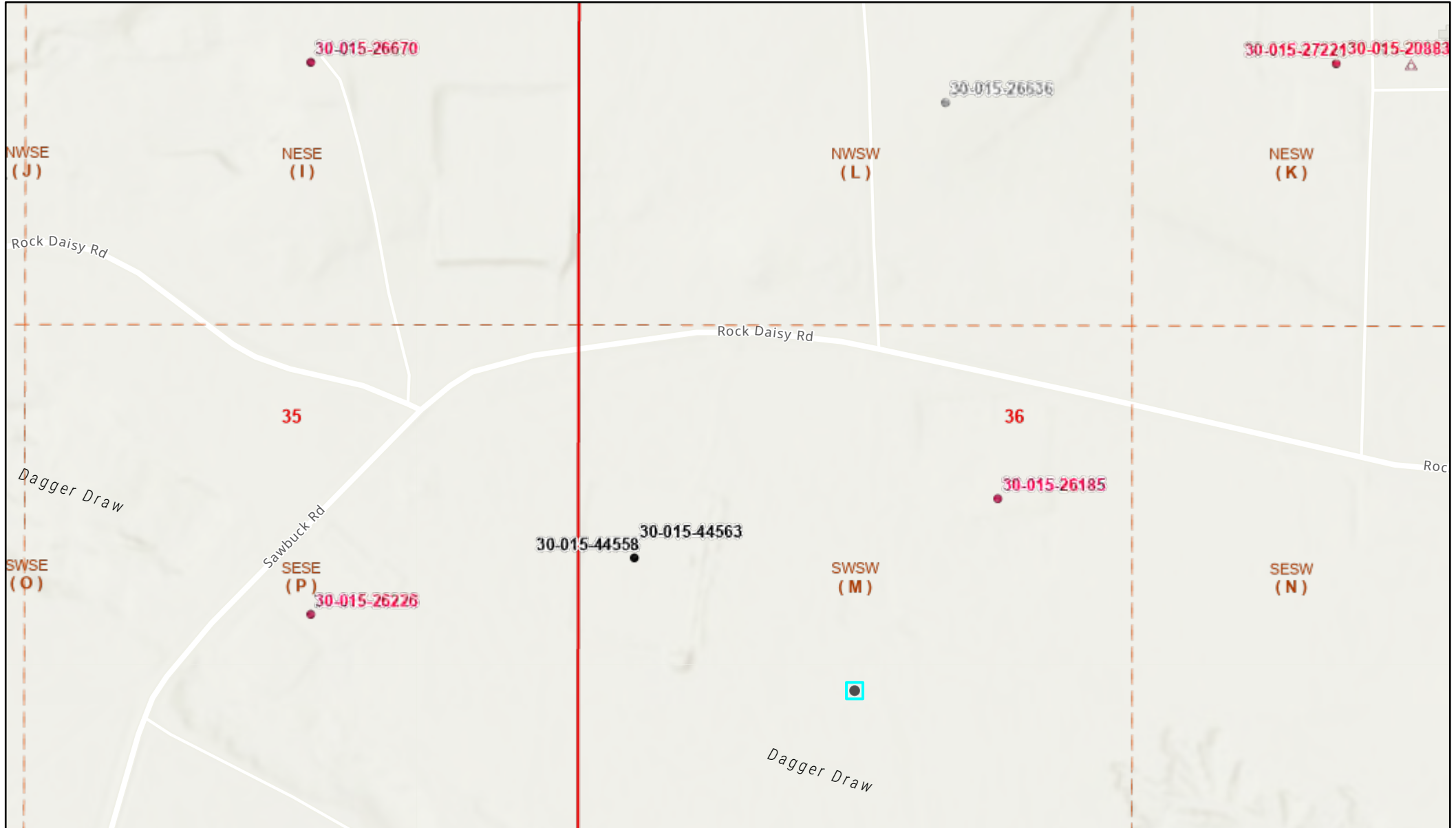
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Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# OCD Well Locations



12/26/2023, 12:52:30 PM

Wells - Large Scale



Gas, Cancelled



Oil, Active



Oil, Cancelled



Oil, Plugged



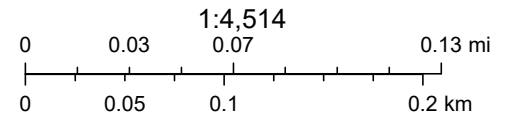
Salt Water Injection, Plugged



PLSS Second Division



PLSS First Division




Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,




# Durango Midstream


EOG 6" PVC  
Karst Map

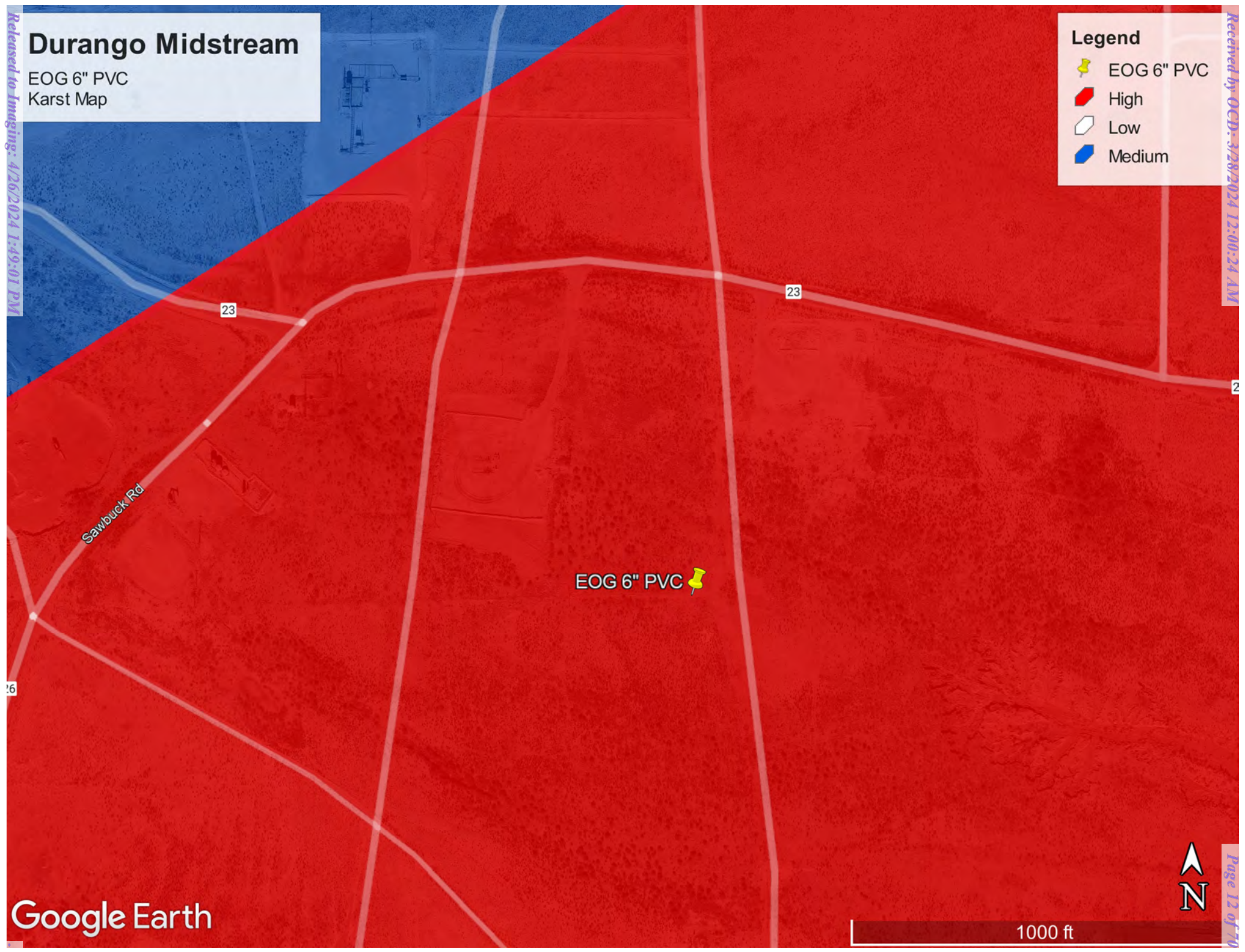
Legend

 EOG 6" PVC

 High

 Low

 Medium





# National Flood Hazard Layer FIRMette



104°33'11"W 32°36'56"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°32'34"W 32°36'26"N

Released to Imaging: 4/26/2024 P. 49:01 PM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



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

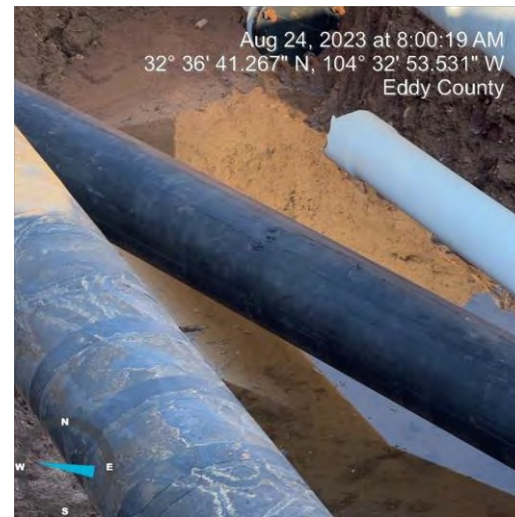
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/26/2023 at 2:50 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.



Watson Spill  
August 24, 2023



# Watson Spill September 22, 2023





# Watson Spill November 15, 2023

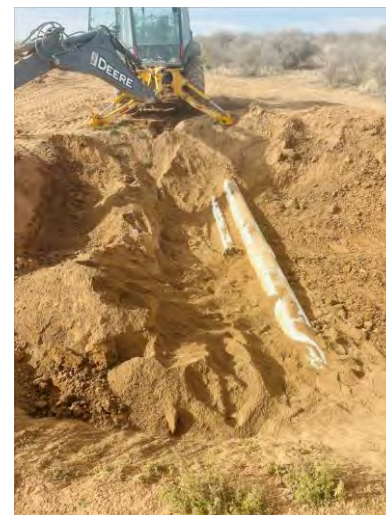


Watson Spill  
November 15, 2023





Watson Spill  
December 27, 2023



Watson Spill  
December 27, 2023







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

---

July 26, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: WATSON SPILL

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 1 SURFACE (H233806-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 2 SURFACE (H233806-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357		
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13		
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191		
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597		
Total BTEx	<0.300	0.300	07/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 3 SURFACE (H233806-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEx	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 58.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 4 SURFACE (H233806-04)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEx	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 5 SURFACE (H233806-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEx	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 6 SURFACE (H233806-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357		
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13		
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191		
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597		
Total BTEx	<0.300	0.300	07/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 7 SURFACE (H233806-07)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 8 SURFACE (H233806-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEx	<0.300	0.300	07/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/26/2023	ND	432	108	400	3.77		

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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 9 SURFACE (H233806-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEX	<0.300	0.300	07/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/20/2023  
 Reported: 07/26/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 10 5 FT (H233806-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2023	ND	2.18	109	2.00	0.357	
Toluene*	<0.050	0.050	07/25/2023	ND	2.12	106	2.00	1.13	
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.06	103	2.00	0.191	
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.22	104	6.00	0.597	
Total BTEx	<0.300	0.300	07/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	07/26/2023	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	07/25/2023	ND	194	97.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	210	105	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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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\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





**CARDINAL**  
Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions										BILL TO										ANALYSIS REQUEST									
Project Manager: Bob Allen										P.O. #:																			
Address: 703 East Clinton, PO Box 1613										Company: Same																			
City: Hobbs										Attn:																			
Phone #: 575 397-0510										Address:																			
Fax #: 575 393-4388										City:																			
Project #: WAT-23-001										State: Zip:																			
Project Name: WATSON SPILL										Phone #:																			
Project Location:										Fax #:																			
Sampler Name: H ABBLE										PRESERV										SAMPLING									
FOR LAB USE ONLY										MATRIX																			
Lab I.D.										(G)RAB OR (C)OMP.																			
Sample I.D.										# CONTAINERS																			
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER :																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER :																			
										DATE										TIME									
H23386										2023																			
SP-1 SW FACE										7/19										09:40									
SP-2 "										X										X									
SP-3 "										X										X									
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SP-87 "																													



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

---

July 28, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: WATSON SPILL

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/21/2023  
 Reported: 07/28/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/19/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 10, 6FT (H233840-01)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	1.96	98.2	2.00	6.04	GC-NC
Toluene*	<0.050	0.050	07/28/2023	ND	2.07	103	2.00	2.52	GC-NC
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.05	102	2.00	6.01	GC-NC
Total Xylenes*	10.6	0.150	07/28/2023	ND	6.17	103	6.00	7.34	GC-NC1
Total BTEx	10.6	0.300	07/28/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1070</b>	16.0	07/26/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	592	50.0	07/27/2023	ND	195	97.6	200	11.6	
DRO >C10-C28*	10300	50.0	07/27/2023	ND	216	108	200	11.6	
EXT DRO >C28-C36	1610	50.0	07/27/2023	ND					

Surrogate: 1-Chlorooctane 192 % 48.2-134

Surrogate: 1-Chlorooctadecane 200 % 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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

---

July 31, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: WATSON SPILL

Enclosed are the results of analyses for samples received by the laboratory on 07/25/23 10:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/25/2023  
 Reported: 07/31/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 12 7' (H233866-01)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.81	0.050	07/30/2023	ND	1.83	91.7	2.00	5.38	
Toluene*	6.09	0.050	07/30/2023	ND	1.98	98.8	2.00	2.86	
Ethylbenzene*	4.24	0.050	07/30/2023	ND	2.02	101	2.00	2.04	
Total Xylenes*	7.18	0.150	07/30/2023	ND	6.09	102	6.00	2.26	
Total BTEx	19.3	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4800</b>	16.0	07/28/2023	ND	416	104	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	321	100	07/28/2023	ND	202	101	200	3.02	
DRO >C10-C28*	1050	100	07/28/2023	ND	216	108	200	3.09	
EXT DRO >C28-C36	<100	100	07/28/2023	ND					

Surrogate: 1-Chlorooctane 158 % 48.2-134

Surrogate: 1-Chlorooctadecane 194 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/25/2023  
 Reported: 07/31/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 12 8' (H233866-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.27	1.00	07/29/2023	ND	1.83	91.7	2.00	5.38	
Toluene*	20.7	1.00	07/29/2023	ND	1.98	98.8	2.00	2.86	
Ethylbenzene*	40.7	1.00	07/29/2023	ND	2.02	101	2.00	2.04	
Total Xylenes*	71.4	3.00	07/29/2023	ND	6.09	102	6.00	2.26	
Total BTEX	134	6.00	07/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5100	16.0	07/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2500	100	07/28/2023	ND	202	101	200	3.02	
DRO >C10-C28*	19700	100	07/28/2023	ND	216	108	200	3.09	
EXT DRO >C28-C36	3220	100	07/28/2023	ND					

Surrogate: 1-Chlorooctane 532 % 48.2-134

Surrogate: 1-Chlorooctadecane 363 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 07/25/2023  
 Reported: 07/31/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 07/24/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP - 12 9' (H233866-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.9	2.00	07/30/2023	ND	1.83	91.7	2.00	5.38	
Toluene*	141	2.00	07/30/2023	ND	1.98	98.8	2.00	2.86	
Ethylbenzene*	121	2.00	07/30/2023	ND	2.02	101	2.00	2.04	
Total Xylenes*	181	6.00	07/30/2023	ND	6.09	102	6.00	2.26	
Total BTEX	469	12.0	07/30/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	07/28/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6180	100	07/28/2023	ND	202	101	200	3.02	
DRO >C10-C28*	20800	100	07/28/2023	ND	216	108	200	3.09	
EXT DRO >C28-C36	3250	100	07/28/2023	ND					

Surrogate: 1-Chlorooctane 704 % 48.2-134

Surrogate: 1-Chlorooctadecane 388 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

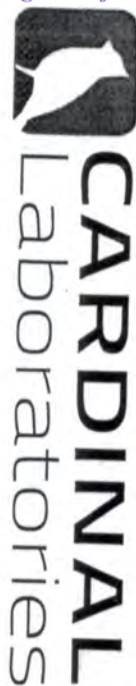
Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

---

September 27, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: WATSON SPILL

Enclosed are the results of analyses for samples received by the laboratory on 09/22/23 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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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:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 09/22/2023  
 Reported: 09/27/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 09/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS SOUTH WALL (H235175-01)**

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	09/25/2023	ND	1.76	87.9	2.00	5.94	
Toluene*	<0.050	0.050	09/25/2023	ND	1.80	89.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.92	96.2	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.73	95.6	6.00	6.72	
Total BTX	<0.300	0.300	09/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2023	ND	432	108	400	3.64		

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	09/25/2023	ND	205	102	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	211	106	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 09/22/2023  
 Reported: 09/27/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 09/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS NORTH WALL (H235175-02)**

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	09/25/2023	ND	1.76	87.9	2.00	5.94	
Toluene*	0.080	0.050	09/25/2023	ND	1.80	89.8	2.00	4.89	GC-NC1
Ethylbenzene*	0.309	0.050	09/25/2023	ND	1.92	96.2	2.00	6.14	
Total Xylenes*	1.60	0.150	09/25/2023	ND	5.73	95.6	6.00	6.72	
Total BTEX	1.99	0.300	09/25/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/25/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.4	10.0	09/25/2023	ND	205	102	200	5.11	
DRO >C10-C28*	1730	10.0	09/25/2023	ND	211	106	200	5.37	
EXT DRO >C28-C36	278	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 09/22/2023  
 Reported: 09/27/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 09/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS EAST WALL (H235175-03)**

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	09/25/2023	ND	1.76	87.9	2.00	5.94		
Toluene*	<0.050	0.050	09/25/2023	ND	1.80	89.8	2.00	4.89		
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.92	96.2	2.00	6.14		
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.73	95.6	6.00	6.72		
Total BTEX	<0.300	0.300	09/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/25/2023	ND	432	108	400	3.64		

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	09/25/2023	ND	205	102	200	5.11	
DRO >C10-C28*	50.6	10.0	09/25/2023	ND	211	106	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 09/22/2023  
 Reported: 09/27/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 09/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS WEST WALL (H235175-04)**

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	09/25/2023	ND	1.76	87.9	2.00	5.94	
Toluene*	<0.050	0.050	09/25/2023	ND	1.80	89.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.92	96.2	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.73	95.6	6.00	6.72	
Total BTEX	<0.300	0.300	09/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/25/2023	ND	432	108	400	3.64		

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	09/25/2023	ND	205	102	200	5.11	
DRO >C10-C28*	<10.0	10.0	09/25/2023	ND	211	106	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 09/22/2023  
 Reported: 09/27/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 09/22/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: CS BOTTOM (H235175-05)**

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	09/25/2023	ND	1.76	87.9	2.00	5.94	
Toluene*	<0.050	0.050	09/25/2023	ND	1.80	89.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	09/25/2023	ND	1.92	96.2	2.00	6.14	
Total Xylenes*	<0.150	0.150	09/25/2023	ND	5.73	95.6	6.00	6.72	
Total BTEx	<0.300	0.300	09/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/25/2023	ND	432	108	400	3.64	

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	09/25/2023	ND	205	102	200	5.11	
DRO >C10-C28*	107	10.0	09/25/2023	ND	211	106	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	09/25/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Cardinal Laboratories

\*=Accredited Analyte

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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>Bob Allen Safety &amp; Environmental Solutions Inc.</u>		P.O. #:		BILL TO																																			
Project Manager: <u>Bob Allen</u>		Company: <u>Same</u>		ANALYSIS REQUEST																																			
Address: <u>703 E. Clinton</u>		Attn:																																					
City: <u>Hobbs</u>		Address:																																					
Phone #: <u>575-393-0510</u>		City:																																					
Fax #: <u></u>		State:																																					
Project #: <u>WAT-23-001</u>		Zip:																																					
Project Owner: <u>Bob Allen</u>		Phone #:																																					
Project Location: <u>Watson Spill</u>		Fax #:																																					
Sampler Name: <u>Hyden Able</u>																																							
FOR LAB USE ONLY																																							
Lab I.D. <u>H35175</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		Chlorides					
1 CS South wall				C 1		X						X												X		9/24/23		10:03		X		X		X					
2 CS North wall				C 1		X						X												X		9/24/23		09:39		X		X		X					
3 CS East wall				C 1		X						X												X		9/24/23		09:50		X		X		X					
4 CS West wall				C 1		X						X												X		9/24/23		10:11		X		X		X					
5 CS Bottom				C 1		X						X												X		9/24/23		09:10		X		X		X					
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Relinquished By: <u>Hyden Able</u>		Date: <u>9/24/23</u>		Time: <u>14:35</u>		Received By: <u>DA King</u>		Date: <u></u>		Time: <u></u>		Turnaround Time: <u></u>		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Cool Intact <u></u>		Observed Temp. °C <u></u>		Corrected Temp. °C <u></u>		Thermometer ID #140		Correction Factor 0°C <u></u>		All Results are emailed. Please provide Email address: <u>ballen@sesi-nm.com</u>		Verbal Result: <u></u>		Yes <u></u> No <u>X</u>		Add'l Phone #: <u></u>		Email address: <u>ballen@sesi-nm.com</u>		REMARKS: <u>habe@sesi-nm.com machine@sesi-nm.com</u>	
Delivered By: (Circle One) <u>UPS</u>		Observed Temp. °C <u>3.9°C</u>		Corrected Temp. °C <u></u>		Sample Condition <u>Cool Intact</u>		CHECKED BY: <u>DA King</u>		Turnaround Time: <u></u>		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Cool Intact <u></u>		Observed Temp. °C <u></u>		Corrected Temp. °C <u></u>		Thermometer ID #140		Correction Factor 0°C <u></u>		All Results are emailed. Please provide Email address: <u>ballen@sesi-nm.com</u>		Verbal Result: <u></u>		Yes <u></u> No <u>X</u>		Add'l Phone #: <u></u>		Email address: <u>ballen@sesi-nm.com</u>		REMARKS: <u>habe@sesi-nm.com machine@sesi-nm.com</u>			



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

November 20, 2023

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: WATSON SPILL

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 8:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Safety & Environmental Solutions  
 Bob Allen  
 703 East Clinton  
 Hobbs NM, 88240  
 Fax To: (575) 393-4388

Received: 11/16/2023  
 Reported: 11/20/2023  
 Project Name: WATSON SPILL  
 Project Number: WAT-23-001  
 Project Location: NONE GIVEN

Sampling Date: 11/15/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: NORTH WALL COMP. SAMPLE (H236259-01)**

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	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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.

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Page 4 of 4

District I  
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1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2319434216
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Frontier Field Services	OGRID	221115
Contact Name	Lupe Carrasco	Contact Telephone	575-725-0787
Contact email	gcarrasco@durangomidstream.com	Incident # (assigned by OCD)	nAPP2319434216
Contact mailing address	47 Conoco Rd. Maljamar, NM 88264		

### Location of Release Source

Latitude 32.611447 Longitude -104.547979  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	EOG 6" PVC	Site Type	Pipeline
Date Release Discovered	6/1/23	API# (if applicable)	

Unit Letter	Section	Township	Range	County
M	36	19S	24E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 60	Volume Recovered (bbls) 30
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release  
Possible line damage during construction of pipeline. Release resulted when EOG was flushing abandoned line with fresh water.

Incident ID	nAPP2319434216
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  >25 barrel release
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was not given by Durango. At time of release, EOG was going to give notice and create C-141. EOG just informed Durango that they were not going to submit any information on their behalf.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lupe Carrasco</u>	Title: <u>Sr. Environmental Specialist</u>
Signature: <u><i>Lupe Carrasco</i></u>	Date: <u>7/13/23</u>
email: <u>gcarrasco@durangomidstream.com</u>	Telephone: <u>575-725-0787</u>
<b><u>OCD Only</u></b> Received by: <u>Shelly Wells</u> Date: <u>7/13/2023</u>	





## Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	5/8/2023						
Site or Line Name:	Chavez 6" steel						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16	10	60	3.5	2100	59.89	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25				0	0.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravelly Sand	0.26				0	0.00	Gravelly Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X	0	0	0	0	0.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

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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**

CONDITIONS  
  
Action 239526

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 239526
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	7/13/2023

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Bob Allen](#); [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)  
**Cc:** [Guadalupe Carrasco](#)  
**Subject:** RE: [EXTERNAL] RE: 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)  
**Date:** Monday, November 13, 2023 10:53:05 AM  
**Attachments:** [image001.png](#)

---

Good morning Bob,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

*Shelly*

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Bob Allen <ballen@sesi-nm.com>  
**Sent:** Monday, November 13, 2023 10:48 AM  
**To:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>  
**Cc:** Guadalupe Carrasco <gcarrasco@durangomidstream.com>  
**Subject:** RE: [EXTERNAL] RE: 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)

Good morning.

SESI will be collecting composite confirmation samples on behalf of Durango Midstream at the below referenced site on Wednesday, November 15, 2023 at 1:00 PM. We had the results for the sample from the north wall of the excavation exceed regulatory limits. Additional excavation has been performed and this event is to resample the north wall.

Please let me know if you have any questions.

EOG 6" PVC

32.611447,-104.547979

Eddy County, NM

Incident #nAPP2319434216

Bob Allen CSP, CHMM

Office: (575) 397-0510

Cell (575) 390-7063



---

**From:** Bob Allen <[ballen@SESI-NM.com](mailto:ballen@SESI-NM.com)>  
**Sent:** Tuesday, November 7, 2023 7:58 AM  
**To:** 'Wells, Shelly, EMNRD' <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** 'Bratcher, Michael, EMNRD' <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; 'Hamlet, Robert, EMNRD' <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; 'Guadalupe Carrasco' <[gcarrasco@durangomidstream.com](mailto:gcarrasco@durangomidstream.com)>  
**Subject:** RE: [EXTERNAL] RE: 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)

Shelly, SESI will be unable to perform the confirmation sampling today because I have several employees out with Covid and several others being tested. I will send the notice when we are fully staffed again. Thank you for your patience and understanding.

Bob Allen CSP, CHMM  
Office: (575) 397-0510  
Cell (575) 390-7063



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Thursday, November 2, 2023 10:39 AM  
**To:** Bob Allen <[ballen@sesi-nm.com](mailto:ballen@sesi-nm.com)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Guadalupe Carrasco <[gcarrasco@durangomidstream.com](mailto:gcarrasco@durangomidstream.com)>  
**Subject:** RE: [EXTERNAL] RE: 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)

Good morning Bob,

Thank you for the update. The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are



documented in the project file.

Thank you,

*Shelly*

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Bob Allen <[ballen@sesi-nm.com](mailto:ballen@sesi-nm.com)>  
**Sent:** Thursday, November 2, 2023 9:43 AM  
**To:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Guadalupe Carrasco <[gcarrasco@durangomidstream.com](mailto:gcarrasco@durangomidstream.com)>  
**Subject:** [EXTERNAL] RE: 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning.

SESI will be collecting composite confirmation samples on behalf of Durango Midstream at the below referenced site on Tuesday, November 7, 2023 at 10:30 AM. We had the results for the sample from the north wall of the excavation exceed regulatory limits. Additional excavation has been performed and this event is to resample the north wall. Please let me know if you have any questions.

**EOG 6" PVC**  
**32.611447,-104.547979**  
**Eddy County, NM**  
**Incident #nAPP2319434216**

Bob Allen CSP, CHMM  
Office: (575) 397-0510  
Cell (575) 390-7063



---

**From:** Bob Allen <[ballen@sesi-nm.com](mailto:ballen@sesi-nm.com)>  
**Sent:** Tuesday, September 19, 2023 6:47 PM  
**To:** [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
**Cc:** EMNRD Bratcher Mike <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; EMNRD Hamlet Robert <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Guadalupe Carrasco <[gcarrasco@durangomidstream.com](mailto:gcarrasco@durangomidstream.com)>  
**Subject:** 48-Hour Confirmation Sampling Notification-EOG 6" PVC (nAPP2319434216)

Good Day!

SESI will be collecting composite confirmation samples on behalf of Durango Midstream at the below referenced site on Friday , 9/22/23, at 9:00 AM MST. Please let me know if you have any questions.

**EOG 6" PVC**  
**32.611447,-104.547979**  
**Eddy County, NM**  
**Incident #nAPP2319434216**

Bob Allen CSP, CHMM  
Office. 575-397-0510  
Cell 575-390-7063



**District I**  
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**District IV**  
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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 327444

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 327444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2319434216
Incident Name	NAPP2319434216 EOG 6 IN PVC @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EOG 6 IN PVC
Date Release Discovered	06/01/2023
Surface Owner	State

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: Other   Pipeline (Any)   Produced Water   Released: 60 BBL   Recovered: 30 BBL   Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 327444

**QUESTIONS (continued)**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID:	221115
	Action Number:	327444
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 03/27/2024
--	--



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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 327444

**QUESTIONS (continued)**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 327444
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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	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 be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	5100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	27449
GRO+DRO	(EPA SW-846 Method 8015M)	26980
BTEX	(EPA SW-846 Method 8021B or 8260B)	469
Benzene	(EPA SW-846 Method 8021B or 8260B)	25.9

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	07/19/2023
On what date will (or did) the final sampling or liner inspection occur	11/15/2023
On what date will (or was) the remediation complete(d)	12/27/2023
What is the estimated surface area (in square feet) that will be reclaimed	300
What is the estimated volume (in cubic yards) that will be reclaimed	112
What is the estimated surface area (in square feet) that will be remediated	300
What is the estimated volume (in cubic yards) that will be remediated	112

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.

**District I**

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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 4

Action 327444

**QUESTIONS (continued)**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 327444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 03/27/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

**District I**  
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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5  
  
Action 327444

**QUESTIONS (continued)**

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	Action Number: 327444
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 327444

**QUESTIONS (continued)**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID:
	221115
	Action Number:
	327444
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	327463
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/15/2023
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	300

**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	300
What was the total volume (cubic yards) remediated	112
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	300
What was the total volume (in cubic yards) reclaimed	300
Summarize any additional remediation activities not included by answers (above)	n/a

*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.

I hereby agree and sign off to the above statement	Name: Guadalupe Carrasco Title: Sr. Environmental Specialist Email: gcarrasco@durangomidstream.com Date: 03/27/2024
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QUESTIONS, Page 7  
  
Action 327444

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
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	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  
  
Action 327444

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID:
	221115
	Action Number:
	327444
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved with conditions. OCD notes SP 12 @ 10' exceeded RRALs which is 100 mg/kg for TPH. SP 12 was 107 mg/kg. At this time, the OCD will approve this remediation closure; however be advised that going forward, sample points that don't meet RRALs will need to be re-excavated and remediated until they are below Table 1 closure criteria.	4/26/2024