



October 28, 2022

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South Street, Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Report
Brown SWD #1 Wellhead
EOG Resources, Inc.
Incident Number nAPP2222956552
Lea County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of EOG Resources, Inc. (EOG), has prepared this *Closure Report* to document assessment, excavation, and soil sampling activities performed at the Brown SWD #1 Wellhead (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to remediate historical soil impacts discovered during the decommissioning process of the facility. Based on the excavation activities and analytical results from the soil sampling events, EOG is submitting this *Closure Report*, describing remediation and sampling activities that has occurred for closure of Incident Number nAPP2222956552.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site (Figure 1) is located in Unit H, Section 26, Township 16 South, Range 37 East, in Lea County, New Mexico (32.8949471 °N, 103.2138824 °W) and is associated with oil and gas exploration and production operations on private land owned by Brand West Farms LLC.

Historical soil impacts were discovered during the decommissioning process of the facility. Analytical results from delineation samples collected on July 7, 2022, and August 29, 2022 confirmed the presence of elevated total petroleum hydrocarbon (TPH) and chloride concentrations, indicating a historical release to the subsurface from the well head. Although the volume of released fluids is unknown, the quantity of crude oil and produced water released at the Site likely exceeded the reportable volume threshold of 5 barrels (bbls) based on field observations of the area exhibiting stained soil and analytical results. EOG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* (Form C-141) on August 17, 2022, and the release was assigned Incident Number nAPP2222956552. The historical release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to *Table I, Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are summarized below, with potential site receptors identified on Figure 1.

Depth to groundwater at the Site is between 50 feet bgs and 100 feet below ground surface (bgs) based on the nearest permitted groundwater well. On October 27, 2015, a shallow domestic well (L-14025-POD1) was drilled 0.2 miles southeast of the Site. Soil boring L-14025-POD1 was drilled to a depth of 170 feet bgs by Roy Allen Taylor drilling company. Groundwater was encountered at a depth of 98 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The Referenced Well Records are included in Appendix A.

The closest waterbody is a freshwater pond located approximately 2,585 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a continuously flowing or significant watercourse, freshwater well, or spring, and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

Due to the Sites decommission status, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet, per NMAC 19.15.29.13.D (1) for all remediation areas.

DELINEATION SOIL SAMPLING ACTIVITIES

On July 7, 2022 and August 29, 2022, Ensolum personnel conducted delineation activities to evaluate the release extent based on visual observations. Specifically, soil samples from two potholes (PH01 and PH02) and testpits (TP03 through TP08) were collected at depths ranging from 0.5 feet to 4 feet bgs. Soil from the delineation samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analysis Laboratories (HEAL) in Albuquerque, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B;

TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for delineation soil sample indicated COC concentrations exceeded the reclamation requirement applied in the top 4 feet of the Site. Based on visible staining in the release area, elevated field screening and laboratory results, excavation activities appeared to be warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On September 15, 2022, and September 16, 2022, Ensolum personnel returned to the Site to complete excavation activities. Excavation activities were performed using track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 4 feet.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS07 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite sidewall samples SW02 through SW08 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is presented in Appendix B.

Sidewall samples exceeding the reclamation requirement applied in the top 4 feet (SW02 through SW04) were further excavated. Laboratory analytical results for final floor and sidewall samples indicated all COC concentration were compliant with the Closure Criteria and reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C. NMOCD notifications for the sampling events are included in Appendix D.

The final excavation area measured approximately 1,660 square feet in areal extent and extends to approximately 4 feet bgs. A total of approximately 245 cubic yards of impacted soil was removed. The impacted soil was transported and properly disposed of at Lea Land landfill in Carlsbad, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the historical impacts discovered during the decommissioning process. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and applied reclamation requirement. Based on the soil sample analytical results, no further remediation was required. EOG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. Excavation of impacted soil has mitigated impacts at this Site. As such, EOG respectfully requests closure for Incident Number nAPP2222956552.

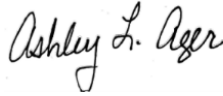
EOG Resources, Inc.
Closure Report
Brown SWD #1 Wellhead

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Anita Thapalia, P.G.
Project Geologist



Ashley Ager, P.G.
Program Director

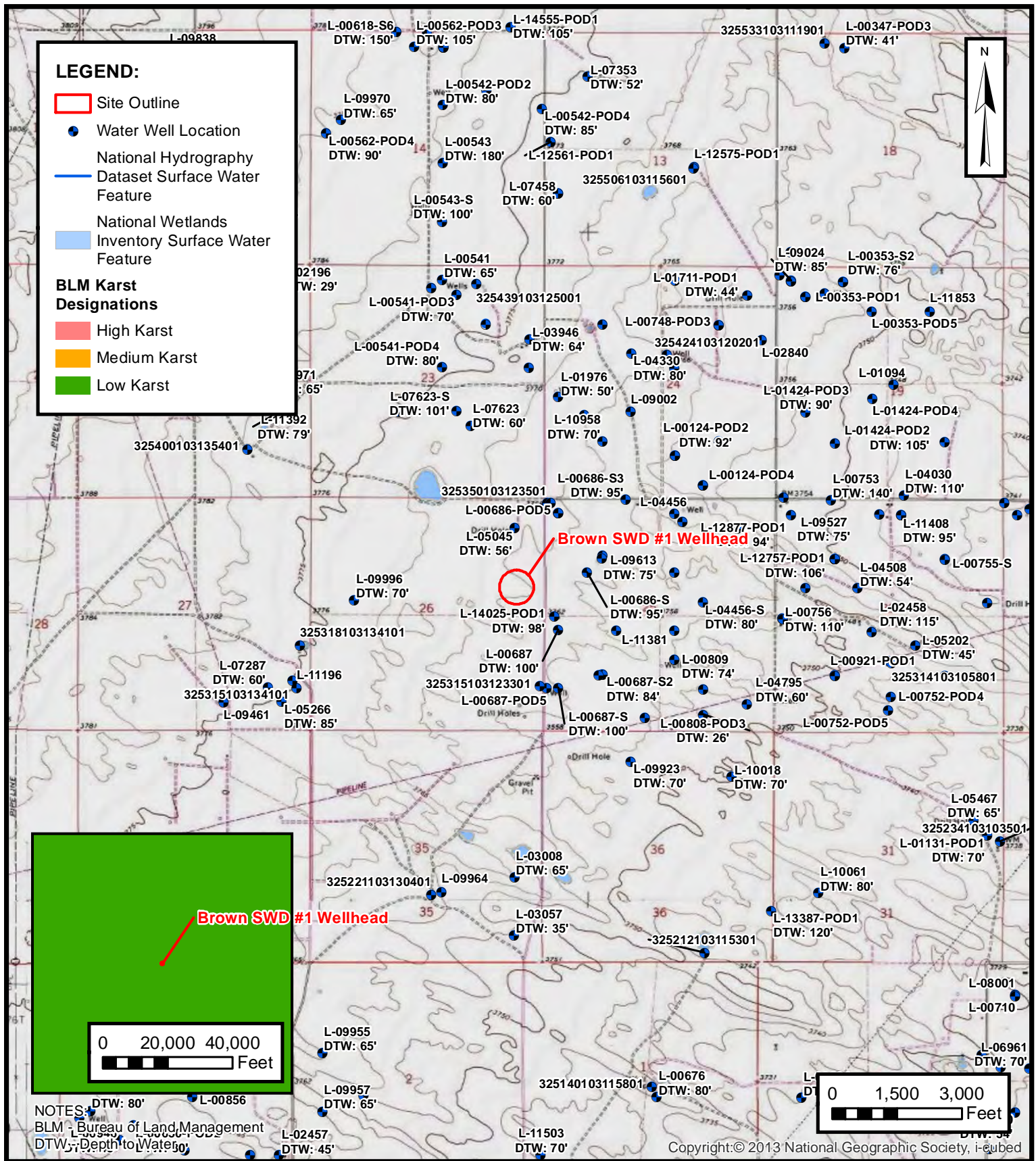
cc: Chase Settle, EOG
Amber Griffin, EOG
Brand West Farms LLC

Appendices:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final Form C-141

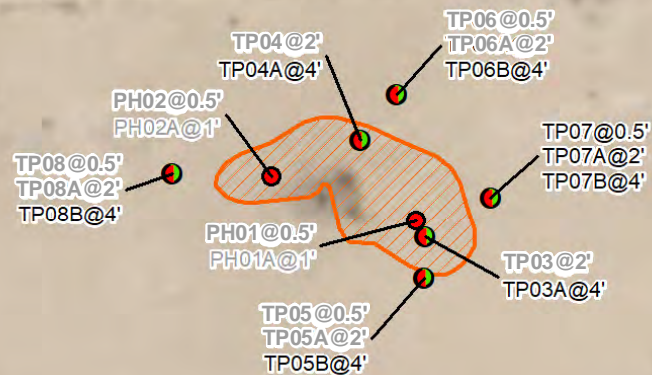


FIGURES

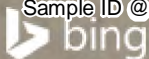


LEGEND:

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Stained Area

**NOTES:**

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.
 Soil samples in **grey** indicate soil sample location was removed.
 Sample ID @ Depth Below Ground Surface.



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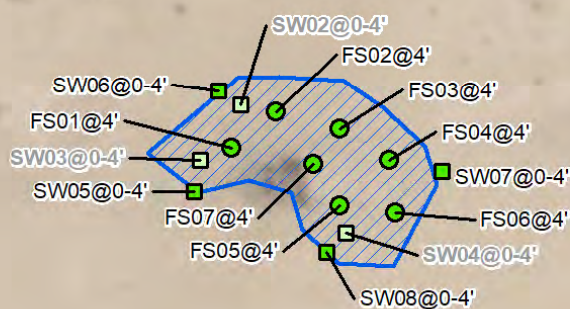
**DELINEATION SOIL SAMPLE LOCATIONS**

EOG RESOURCES, INC
 BROWN SWD #1 Wellhead
 Incident Number nAPP2222956552
 Unit H, Sec 26 T16S R37E
 Lea County, New Mexico

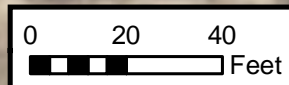
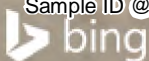
FIGURE
2

LEGEND:

- Excavation Floor Soil
- Sample in Compliance with Closure Criteria
- Excavation Sidewall Soil
- Sample in Compliance with Closure Criteria
- Excavated Sidewall Soil Sample with
- Concentrations Previously Exceeding Closure Criteria
- ▨ Extent of Excavation

**NOTES:**

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.
 Soil samples in **grey** indicate soil sample location was removed.
 Sample ID @ Depth Below Ground Surface.



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EXCAVATION SOIL SAMPLE LOCATIONS

EOG RESOURCES, INC
 BROWN SWD #1 Wellhead
 Incident Number nAPP222956552
 Unit H, Sec 26 T16S R37E
 Lea County, New Mexico

FIGURE
3





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Brown SWD #1 Wellhead
 EOG Resources
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples										
PH01	07/07/2022	0.5	<0.024	<0.100	<4.9	80	160	80	240	8,400
PH01A	07/07/2022	1	<0.024	<0.100	<4.9	<14	<48	<14	<48	1,500
PH02	07/07/2022	0.5	<0.025	<0.100	<4.9	92	160	92	252	5,900
PH02A	07/07/2022	1	<0.025	<0.100	<5.0	39	74	39	113	860
TP03	08/29/2022	2	<0.024	<0.097	<4.8	<15	<48	<15	<48	930
TP03A	08/29/2022	4	<0.024	<0.098	<4.9	<14	<47	<14	<47	1,800
TP04	08/29/2022	2	<0.024	<0.098	<4.9	<14	<46	<14	<46	650
TP04A	08/29/2022	4	<0.025	<0.098	<4.9	<13	<44	<13	<44	640
TP05	08/29/2022	0.5	<0.024	<0.096	<4.8	<15	<50	<15	<50	690
TP05A	08/29/2022	2	<0.024	<0.098	<4.9	<14	<48	<14	<48	990
TP05B	08/29/2022	4	<0.025	<0.099	<5.0	<15	<48	<15	<48	1,100
TP06	08/29/2022	0.5	<0.024	<0.097	<4.8	<15	<49	<15	<49	880
TP06A	08/29/2022	2	<0.025	<0.099	<4.9	<15	<49	<15	<49	1,200
TP06B	08/29/2022	4	<0.025	<0.098	<4.9	<14	<48	<14	<48	840
TP07	08/29/2022	0.5	<0.025	<0.099	<5.0	<15	<49	<15	<49	230
TP07A	08/29/2022	2	<0.025	<0.099	<5.0	<15	<50	<15	<50	280
TP07B	08/29/2022	4	<0.025	<0.099	<4.9	<14	<47	<14	<47	490
TP08	08/29/2022	0.5	<0.024	<0.098	<4.9	<14	<48	<14	<48	490
TP08A	08/29/2022	2	<0.025	<0.100	<5.0	<15	98	<15	98	660
TP08B	08/29/2022	4	<0.025	<0.099	<5.0	<14	55	<14	55	1,200
Confirmation Soil Samples										
FS01	09/15/2022	4	<0.025	<0.099	<5.0	120	210	120	330	1,000
FS02	09/15/2022	4	<0.025	<0.099	<4.9	<15	<49	<15	<49	1,100
FS03	09/15/2022	4	<0.025	<0.099	<4.9	<14	<47	<14	<47	1,500
FS04	09/15/2022	4	<0.024	<0.097	<4.9	<14	<47	<14	<47	2,100
FS05	09/15/2022	4	<0.025	<0.099	<5.0	<14	<48	<14	<48	1,100
FS06	09/15/2022	4	<0.025	<0.10	<5.0	<14	<48	<14	<48	910
FS07	09/15/2022	4	<0.024	<0.096	<4.8	<14	<47	<14	<47	860



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Brown SWD #1 Wellhead
EOG Resources
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
SW02	09/16/2022	0 - 4	<0.025	<0.10	<5.0	<14	<48	<14	<48	990
SW03	09/16/2022	0 - 4	<0.024	<0.096	<4.8	<14	<46	<14	<46	710
SW04	09/16/2022	0 - 4	<0.024	<0.095	<4.8	<15	<49	<15	<49	990
SW05	09/16/2022	0 - 4	<0.025	<0.025	<20	<25	<50	<25	<50	282
SW06	09/16/2022	0 - 4	<0.025	<0.025	<20	<25	<50	<25	<50	278
SW07	09/16/2022	0 - 4	<0.025	<0.050	<20	<25	<50	<25	<50	<20
SW08	09/16/2022	0 - 4	<0.025	<0.050	<20	<25	<50	<25	<50	<20

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Water Right Summary



get image list

WR File Number: L 14025

Subbasin: L

Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 1

Cause/Case: -

Owner: ROY TAYLOR

Owner: LINDA WESTALL TAYLOR

Documents on File



get images

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
577661	72121	2015-10-22	PMT	LOG	L 14025 POD1	T		1	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
L 14025 POD1		Shallow	1	1	3	25 16S 37E	667298	3640818	

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


6/21/22 1:29 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
L	14025 POD1	1	1	3	25	16S	37E	667298	3640818 

Driller License: 1626 **Driller Company:** TAYLOR, ROY ALLEN

Driller Name: ROY TAYLOR

Drill Start Date: 10/27/2015 **Drill Finish Date:** 10/28/2015 **Plug Date:**

Log File Date: 11/02/2015 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 170 feet **Depth Water:** 98 feet

Water Bearing Stratifications:

Top	Bottom	Description
39	165	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
130	170

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.

10/19/22 10:08 AM

POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 325350103123501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325350103123501 16S.37E.25.111113

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°53'59.0", Longitude 103°12'43.0" NAD83

Land-surface elevation 3,767.00 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

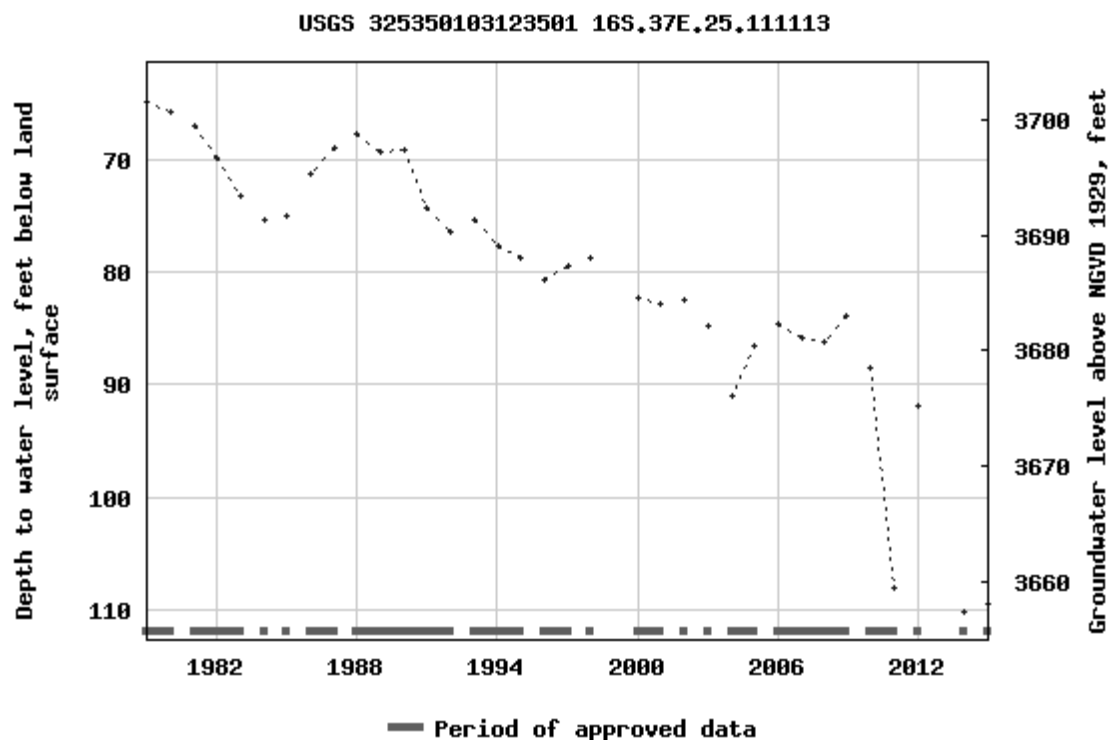
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-06-21 15:54:59 EDT

0.56 0.46 nadww02



APPENDIX B

Photographic Log



Photographic Log
 EOG Resources, Inc
 Brown SWD #1 Wellhead
 Incident Number nAPP2222956552



Photograph: 1 Date: 6/15/2022
 Description: Staining near wellhead during decommissioning.
 View: West



Photograph: 2 Date: 6/15/2022
 Description: Staining near wellhead during decommissioning.
 View: Northwest



Photograph: 3 Date: 8/29/2022
 Description: View of staining observed during delineation.
 View: Northwest



Photograph: 4 Date: 9/28/2022
 Description: View of final excavation extent
 View: West



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

July 19, 2022

Tacoma Morrissey
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Brown SWD 001

OrderNo.: 2207350

Dear Tacoma Morrissey:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/9/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2207350

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SS01 @ 0.5'

Project: Brown SWD 001

Collection Date: 7/7/2022 11:15:00 AM

Lab ID: 2207350-001

Matrix: SOIL

Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	7/15/2022 4:19:08 PM	68808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/16/2022 1:21:46 AM	68750
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2022 1:21:46 AM	68750
Surr: DNOP	81.5	51.1-141		%Rec	1	7/16/2022 1:21:46 AM	68750
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 8:07:00 PM	68721
Surr: BFB	81.8	37.7-212		%Rec	1	7/14/2022 8:07:00 PM	68721
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/14/2022 8:07:00 PM	68721
Toluene	ND	0.050		mg/Kg	1	7/14/2022 8:07:00 PM	68721
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 8:07:00 PM	68721
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 8:07:00 PM	68721
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	7/14/2022 8:07:00 PM	68721

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 8

Analytical Report

Lab Order 2207350

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SS02 @ 0.5'

Project: Brown SWD 001

Collection Date: 7/7/2022 11:20:00 AM

Lab ID: 2207350-002

Matrix: SOIL

Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	320	60		mg/Kg	20	7/15/2022 5:21:11 PM	68808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/16/2022 2:09:09 AM	68750
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2022 2:09:09 AM	68750
Surr: DNOP	63.3	51.1-141		%Rec	1	7/16/2022 2:09:09 AM	68750
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 8:27:00 PM	68721
Surr: BFB	81.7	37.7-212		%Rec	1	7/14/2022 8:27:00 PM	68721
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	7/14/2022 8:27:00 PM	68721
Toluene	ND	0.049		mg/Kg	1	7/14/2022 8:27:00 PM	68721
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 8:27:00 PM	68721
Xylenes, Total	ND	0.098		mg/Kg	1	7/14/2022 8:27:00 PM	68721
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	7/14/2022 8:27:00 PM	68721

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2207350

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SS03 @ 0.5'

Project: Brown SWD 001

Collection Date: 7/7/2022 11:25:00 AM

Lab ID: 2207350-003

Matrix: SOIL

Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	290	60		mg/Kg	20	7/15/2022 5:33:36 PM	68808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/16/2022 2:32:50 AM	68750
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2022 2:32:50 AM	68750
Surr: DNOP	90.1	51.1-141		%Rec	1	7/16/2022 2:32:50 AM	68750
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/14/2022 8:47:00 PM	68721
Surr: BFB	81.8	37.7-212		%Rec	1	7/14/2022 8:47:00 PM	68721
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/14/2022 8:47:00 PM	68721
Toluene	ND	0.049		mg/Kg	1	7/14/2022 8:47:00 PM	68721
Ethylbenzene	ND	0.049		mg/Kg	1	7/14/2022 8:47:00 PM	68721
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 8:47:00 PM	68721
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	7/14/2022 8:47:00 PM	68721

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2207350

Date Reported: 7/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SS04 @ 0.5'

Project: Brown SWD 001

Collection Date: 7/7/2022 11:30:00 AM

Lab ID: 2207350-004

Matrix: SOIL

Received Date: 7/9/2022 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	77	60		mg/Kg	20	7/15/2022 5:46:01 PM	68808
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/16/2022 2:56:32 AM	68750
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2022 2:56:32 AM	68750
Surr: DNOP	106	51.1-141		%Rec	1	7/16/2022 2:56:32 AM	68750
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/14/2022 9:06:00 PM	68721
Surr: BFB	80.1	37.7-212		%Rec	1	7/14/2022 9:06:00 PM	68721
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	7/14/2022 9:06:00 PM	68721
Toluene	ND	0.050		mg/Kg	1	7/14/2022 9:06:00 PM	68721
Ethylbenzene	ND	0.050		mg/Kg	1	7/14/2022 9:06:00 PM	68721
Xylenes, Total	ND	0.099		mg/Kg	1	7/14/2022 9:06:00 PM	68721
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	7/14/2022 9:06:00 PM	68721

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207350
19-Jul-22

Client: EOG
Project: Brown SWD 001

Sample ID: MB-68808	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 68808	RunNo: 89522
Prep Date: 7/15/2022	Analysis Date: 7/15/2022	SeqNo: 3188544 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-68808	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 68808	RunNo: 89522
Prep Date: 7/15/2022	Analysis Date: 7/15/2022	SeqNo: 3188545 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.5 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2207350

19-Jul-22

Client: EOG
Project: Brown SWD 001

Sample ID: MB-68750	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68750	RunNo: 89483								
Prep Date: 7/13/2022	Analysis Date: 7/15/2022	SeqNo: 3186687	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		118	51.1	141			

Sample ID: LCS-68750	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68750	RunNo: 89483								
Prep Date: 7/13/2022	Analysis Date: 7/15/2022	SeqNo: 3186688	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	64.4	127			
Surr: DNOP	5.8		5.000		116	51.1	141			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2207350

19-Jul-22

Client: EOG**Project:** Brown SWD 001

Sample ID: lcs-68721	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68721			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/14/2022			SeqNo: 3184960		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.9	72.3	137			
Surr: BFB	1800		1000		180	37.7	212			

Sample ID: mb-68721	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68721			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/14/2022			SeqNo: 3184961		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.4	37.7	212			

Sample ID: lcs-68726	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 68726			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/15/2022			SeqNo: 3184981		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1800		1000		180	37.7	212			

Sample ID: mb-68726	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 68726			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/15/2022			SeqNo: 3184982		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	830		1000		83.2	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2207350

19-Jul-22

Client: EOG**Project:** Brown SWD 001

Sample ID: ics-68721	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68721			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/14/2022			SeqNo: 3185011		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.7	80	120			
Toluene	0.83	0.050	1.000	0	82.9	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.7	80	120			
Xylenes, Total	2.4	0.10	3.000	0	80.7	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.5	70	130			

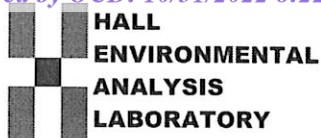
Sample ID: mb-68721	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68721			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/14/2022			SeqNo: 3185012		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.82		1.000		81.9	70	130			

Sample ID: ics-68726	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68726			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/15/2022			SeqNo: 3185032		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.83		1.000		83.2	70	130			

Sample ID: mb-68726	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68726			RunNo: 89504						
Prep Date: 7/12/2022	Analysis Date: 7/15/2022			SeqNo: 3185033		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.83		1.000		82.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2207350

RcptNo: 1

Received By: Sean Livingston

7/9/2022 9:30:00 AM

Completed By: Sean Livingston

7/9/2022 12:12:26 PM

Reviewed By: CMC

7/11/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: jn 7/11/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	3.6	Good				
3	3.9	Good				

Chain-of-Custody Record

Client: Chase Settle, Amber Griffin

Mailing Address: 105 S. 4th St. Artesia, NM 88210

Phone #:

email or Fax#: Settle@eogresources.com

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Cooler Temp (including CF): 2.1°C, 3.6°C, 3.9°C

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending

Project Manager:

Tacoma Morrissey

tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☒ Yes ☐ No

of Coolers: 3

Container Type and #

Preservative Type

HEAL No.

2207350

2 oz Jar

2 oz Jar

2 oz Jar

2 oz Jar

Turn-Around Time:

☒ Standard☒ Rush

Brown SWD #001

Job#: 03C2000007

Incident #: Pending



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

September 29, 2022

Tacoma Morrissey
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Brown SWD 1

OrderNo.: 2209A57

Dear Tacoma Morrissey:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2209A57

Date Reported: 9/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW04@0-4'

Project: Brown SWD 1

Collection Date: 9/16/2022 4:05:00 PM

Lab ID: 2209A57-001

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	990	60		mg/Kg	20	9/28/2022 1:04:16 AM	70444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/23/2022 4:05:27 PM	70355
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/23/2022 4:05:27 PM	70355
Surr: DNOP	123	21-129		%Rec	1	9/23/2022 4:05:27 PM	70355
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2022 5:31:28 PM	70327
Surr: BFB	95.1	37.7-212		%Rec	1	9/22/2022 5:31:28 PM	70327
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/22/2022 5:31:28 PM	70327
Toluene	ND	0.048		mg/Kg	1	9/22/2022 5:31:28 PM	70327
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2022 5:31:28 PM	70327
Xylenes, Total	ND	0.095		mg/Kg	1	9/22/2022 5:31:28 PM	70327
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	9/22/2022 5:31:28 PM	70327

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 7

Analytical Report

Lab Order 2209A57

Date Reported: 9/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW03@0-4'

Project: Brown SWD 1

Collection Date: 9/16/2022 2:50:00 PM

Lab ID: 2209A57-002

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	710	60		mg/Kg	20	9/28/2022 1:16:37 AM	70444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/23/2022 4:16:05 PM	70355
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/23/2022 4:16:05 PM	70355
Surr: DNOP	115	21-129		%Rec	1	9/23/2022 4:16:05 PM	70355
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2022 5:55:02 PM	70327
Surr: BFB	96.0	37.7-212		%Rec	1	9/22/2022 5:55:02 PM	70327
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	9/22/2022 5:55:02 PM	70327
Toluene	ND	0.048		mg/Kg	1	9/22/2022 5:55:02 PM	70327
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2022 5:55:02 PM	70327
Xylenes, Total	ND	0.096		mg/Kg	1	9/22/2022 5:55:02 PM	70327
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	9/22/2022 5:55:02 PM	70327

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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Analytical Report

Lab Order 2209A57

Date Reported: 9/29/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW02@0-4'

Project: Brown SWD 1

Collection Date: 9/16/2022 1:35:00 PM

Lab ID: 2209A57-003

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	990	60		mg/Kg	20	9/28/2022 1:53:38 AM	70444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/23/2022 4:53:10 PM	70355
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/23/2022 4:53:10 PM	70355
Surr: DNOP	126	21-129		%Rec	1	9/23/2022 4:53:10 PM	70355
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2022 6:18:34 PM	70327
Surr: BFB	98.4	37.7-212		%Rec	1	9/22/2022 6:18:34 PM	70327
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/22/2022 6:18:34 PM	70327
Toluene	ND	0.050		mg/Kg	1	9/22/2022 6:18:34 PM	70327
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2022 6:18:34 PM	70327
Xylenes, Total	ND	0.10		mg/Kg	1	9/22/2022 6:18:34 PM	70327
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/22/2022 6:18:34 PM	70327

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209A57
29-Sep-22

Client: EOG

Project: Brown SWD 1

Sample ID: MB-70444		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70444		RunNo: 91365						
Prep Date: 9/27/2022		Analysis Date: 9/27/2022		SeqNo: 3270700			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70444		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70444		RunNo: 91365						
Prep Date: 9/27/2022		Analysis Date: 9/27/2022		SeqNo: 3270701			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209A57

29-Sep-22

Client: EOG
Project: Brown SWD 1

Sample ID: LCS-70355	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70355		RunNo: 91268							
Prep Date: 9/22/2022	Analysis Date: 9/23/2022		SeqNo: 3266106		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	81.1	64.4	127			
Surr: DNOP	4.2		5.000		83.0	21	129			

Sample ID: MB-70355	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70355		RunNo: 91268							
Prep Date: 9/22/2022	Analysis Date: 9/23/2022		SeqNo: 3266107		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209A57

29-Sep-22

Client: EOG
Project: Brown SWD 1

Sample ID: ics-70327	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265220		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: mb-70327	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265222		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.4	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2209A57

29-Sep-22

Client: EOG
Project: Brown SWD 1

Sample ID: LCS-70327	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265259		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-70327	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265261		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2209A57

RcptNo: 1

Received By: Juan Rojas

9/21/2022 7:30:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

9/21/2022 10:07:54 AM

Reviewed By:

TC 9/21/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Chain-of-Custody Record

Client: Chase Settle, Amber Griffin

Mailing Address: 105 S. 4th St. Arteria
NM 98210

Phone #:

email or Fax#: Chase Settle @ eogresources.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Sampler: LC

On Ice: ☐ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 1.6-1.6 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

Brown SWO #1

Project #:

0302060007

Incident #:

NAPP22295652

Project Manager:

Tacuma Morrisey

Email:

Tmorrisey@eogresources.com

Analysis Request

8081 Pesticides/8082 PCB's

EPA 8015D (GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

C, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Amber-griffin@eogresources.com

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time

Report to:
Stuart Hyde



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

EOG Resources

Project Name: Brown SWD #1 Wellhead

Work Order: E210078

Job Number: 19034-0001

Received: 10/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 10/20/22



Stuart Hyde
104 South 4th Street
Artesia, NM 88210

Project Name: Brown SWD #1 Wellhead
Workorder: E210078
Date Received: 10/14/2022 2:20:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2022 2:20:00PM, under the Project Name: Brown SWD #1 Wellhead.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

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ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Brown SWD #1 Wellhead Project Number: 19034-0001 Project Manager: Stuart Hyde	Reported: 10/20/22 14:41
--	---	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05	E210078-01A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW06	E210078-02A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW07	E210078-03A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW08	E210078-04A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.



Sample Data

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Brown SWD #1 Wellhead Project Number: 19034-0001 Project Manager: Stuart Hyde	Reported: 10/20/2022 2:41:10PM
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SW05

E210078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	-----------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2243006	
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
<i>Surrogate: Bromofluorobenzene</i>	97.6 %	70-130		10/17/22	10/17/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.8 %	70-130		10/17/22	10/17/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/17/22	10/17/22	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2243006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
<i>Surrogate: Bromofluorobenzene</i>	97.6 %	70-130		10/17/22	10/17/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.8 %	70-130		10/17/22	10/17/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/17/22	10/17/22	

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2243013	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
<i>Surrogate: n-Nonane</i>	103 %	50-200		10/17/22	10/19/22	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2243056	
Chloride	282	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW06

E210078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	105 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	105 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	91.5 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	278	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW07

E210078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	101 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	101 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	99.7 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	ND	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW08

E210078-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	103 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	103 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	98.9 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	ND	20.0	1	10/18/22	10/20/22	



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2243006-BLK1)

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2243006-BS1)

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.56	0.0250	2.50		103	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.42	0.0250	2.50		96.9	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.24	0.0250	7.50		96.6	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2243006-MS1)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.13	0.0250	2.50	ND	85.1	48-131			
Ethylbenzene	2.17	0.0250	2.50	ND	86.9	45-135			
Toluene	2.11	0.0250	2.50	ND	84.4	48-130			
o-Xylene	2.08	0.0250	2.50	ND	83.2	43-135			
p,m-Xylene	4.07	0.0500	5.00	ND	81.4	43-135			
Total Xylenes	6.15	0.0250	7.50	ND	82.0	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2243006-MSD1)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.48	0.0250	2.50	ND	99.0	48-131	15.1	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	15.6	27	
Toluene	2.51	0.0250	2.50	ND	101	48-130	17.5	24	
o-Xylene	2.33	0.0250	2.50	ND	93.3	43-135	11.5	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.9	43-135	15.3	27	
Total Xylenes	7.08	0.0250	7.50	ND	94.4	43-135	14.0	27	
Surrogate: Bromofluorobenzene	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.443		0.500		88.5	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Brown SWD #1 Wellhead Project Number: 19034-0001 Project Manager: Stuart Hyde	Reported: 10/20/2022 2:41:10PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2243006-BLK1)

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2243006-BS2)

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	58.2	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2243006-MS2)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike Dup (2243006-MSD2)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	3.68	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2243013-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.5		50.0		107	50-200			

LCS (2243013-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: <i>n</i> -Nonane	52.2		50.0		104	50-200			

Matrix Spike (2243013-MS1)

Source: E210078-03

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: <i>n</i> -Nonane	47.5		50.0		95.1	50-200			

Matrix Spike Dup (2243013-MSD1)

Source: E210078-03

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.814	20	
Surrogate: <i>n</i> -Nonane	46.2		50.0		92.4	50-200			



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2243056-BLK1)					Prepared: 10/18/22 Analyzed: 10/18/22				
Chloride	ND	20.0							
LCS (2243056-BS1)					Prepared: 10/18/22 Analyzed: 10/20/22				
Chloride	252	20.0	250		101	90-110			
LCS Dup (2243056-BSD1)					Prepared: 10/18/22 Analyzed: 10/18/22				
Chloride	267	20.0	250		107	90-110	6.11	20	

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



Definitions and Notes

EOG Resources	Project Name:	Brown SWD #1 Wellhead	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/22 14:41

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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





Envirotech Analytical Laboratory

Printed: 10/14/2022 2:52:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	EOG Resources	Date Received:	10/14/22 14:20	Work Order ID:	E210078
Phone:	(575) 748-4217	Date Logged In:	10/14/22 14:47	Logged In By:	Alexa Michaels
Email:	shyde@ensolum.com	Due Date:	10/20/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Stuart Hyde



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

EOG Resources

Project Name: Brown SWD #1 Wellhead

Work Order: E210078

Job Number: 19034-0001

Received: 10/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/20/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 10/20/22

Stuart Hyde
104 South 4th Street
Artesia, NM 88210



Project Name: Brown SWD #1 Wellhead
Workorder: E210078
Date Received: 10/14/2022 2:20:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2022 2:20:00PM, under the Project Name: Brown SWD #1 Wellhead.

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

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Sample Summary

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Brown SWD #1 Wellhead Project Number: 19034-0001 Project Manager: Stuart Hyde	Reported: 10/20/22 14:41
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW05	E210078-01A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW06	E210078-02A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW07	E210078-03A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.
SW08	E210078-04A	Soil	10/13/22	10/14/22	Glass Jar, 4 oz.



Sample Data

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Brown SWD #1 Wellhead Project Number: 19034-0001 Project Manager: Stuart Hyde	Reported: 10/20/2022 2:41:10PM
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SW05

E210078-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2243006	
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
<i>Surrogate: Bromofluorobenzene</i>	97.6 %	70-130		10/17/22	10/17/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.8 %	70-130		10/17/22	10/17/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/17/22	10/17/22	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2243006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
<i>Surrogate: Bromofluorobenzene</i>	97.6 %	70-130		10/17/22	10/17/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94.8 %	70-130		10/17/22	10/17/22	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		10/17/22	10/17/22	

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2243013	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
<i>Surrogate: n-Nonane</i>	103 %	50-200		10/17/22	10/19/22	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2243056	
Chloride	282	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW06

E210078-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	105 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.4 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	105 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	91.5 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	278	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW07

E210078-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	101 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	101 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	99.7 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	ND	20.0	1	10/18/22	10/20/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Brown SWD #1 Wellhead
Project Number: 19034-0001
Project Manager: Stuart Hyde

Reported:
10/20/2022 2:41:10PM

SW08

E210078-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Benzene	ND	0.0250	1	10/17/22	10/17/22	
Ethylbenzene	ND	0.0250	1	10/17/22	10/17/22	
Toluene	ND	0.0250	1	10/17/22	10/17/22	
o-Xylene	ND	0.0250	1	10/17/22	10/17/22	
p,m-Xylene	ND	0.0500	1	10/17/22	10/17/22	
Total Xylenes	ND	0.0250	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	103 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2243006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/22	10/17/22	
Surrogate: Bromofluorobenzene	98.9 %	70-130		10/17/22	10/17/22	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/22	10/17/22	
Surrogate: Toluene-d8	103 %	70-130		10/17/22	10/17/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2243013
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/22	10/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/22	10/19/22	
Surrogate: n-Nonane	98.9 %	50-200		10/17/22	10/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2243056
Chloride	ND	20.0	1	10/18/22	10/20/22	



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2243006-BLK1)

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2243006-BS1)

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.56	0.0250	2.50		103	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.52	0.0250	2.50		101	70-130			
o-Xylene	2.42	0.0250	2.50		96.9	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.24	0.0250	7.50		96.6	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike (2243006-MS1)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.13	0.0250	2.50	ND	85.1	48-131			
Ethylbenzene	2.17	0.0250	2.50	ND	86.9	45-135			
Toluene	2.11	0.0250	2.50	ND	84.4	48-130			
o-Xylene	2.08	0.0250	2.50	ND	83.2	43-135			
p,m-Xylene	4.07	0.0500	5.00	ND	81.4	43-135			
Total Xylenes	6.15	0.0250	7.50	ND	82.0	43-135			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2243006-MSD1)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Benzene	2.48	0.0250	2.50	ND	99.0	48-131	15.1	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	15.6	27	
Toluene	2.51	0.0250	2.50	ND	101	48-130	17.5	24	
o-Xylene	2.33	0.0250	2.50	ND	93.3	43-135	11.5	27	
p,m-Xylene	4.74	0.0500	5.00	ND	94.9	43-135	15.3	27	
Total Xylenes	7.08	0.0250	7.50	ND	94.4	43-135	14.0	27	
Surrogate: Bromofluorobenzene	0.468		0.500		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.443		0.500		88.5	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2243006-BLK1)

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.478		0.500		95.6	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2243006-BS2)

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	58.2	20.0	50.0		116	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			

Matrix Spike (2243006-MS2)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	0.490		0.500		97.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

Matrix Spike Dup (2243006-MSD2)

Source: E210077-02

Prepared: 10/17/22 Analyzed: 10/17/22

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	3.68	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.1	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2243013-BLK1)

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	53.5		50.0		107	50-200			

LCS (2243013-BS1)

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	262	25.0	250		105	38-132			
Surrogate: <i>n</i> -Nonane	52.2		50.0		104	50-200			

Matrix Spike (2243013-MS1)

Source: E210078-03

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: <i>n</i> -Nonane	47.5		50.0		95.1	50-200			

Matrix Spike Dup (2243013-MSD1)

Source: E210078-03

Prepared: 10/17/22 Analyzed: 10/18/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.814	20	
Surrogate: <i>n</i> -Nonane	46.2		50.0		92.4	50-200			



QC Summary Data

EOG Resources	Project Name:	Brown SWD #1 Wellhead	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/2022 2:41:10PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2243056-BLK1)

Prepared: 10/18/22 Analyzed: 10/18/22

Chloride	ND	20.0							
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LCS (2243056-BS1)

Prepared: 10/18/22 Analyzed: 10/20/22

Chloride	252	20.0	250		101	90-110			
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LCS Dup (2243056-BSD1)

Prepared: 10/18/22 Analyzed: 10/18/22

Chloride	267	20.0	250		107	90-110	6.11	20	
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QC Summary Report Comment:

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



Definitions and Notes

EOG Resources	Project Name:	Brown SWD #1 Wellhead	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Stuart Hyde	10/20/22 14:41

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

Project Information

Chain of Custody

Page 1 of 1

Client: EOG				Bill To				Lab Use Only				TAT				EPA Program			
Project: Brown SWD #1 Wellhead				Attention: Chase Settle				Lab WO# E210078				Job Number 19034-000				CWA SDWA			
Project Manager: Stuart Hyde				Address: 105 S. 4th								1D 2D 3D Standard							
Address: 3122 National Parks Highway				City, State, Zip: Artesia, NM 88210				Analysis and Method								RCRA			
City, State, Zip: Carlsbad, NM 88220				Phone:															
Phone: 970-903-1607				Email: Chase.Settle@eogresources.com												State			
Email: shyde@ensolum.com				Amber.Griffin@eogresources.com												NM CO UT AZ TX			
Report due by:				tmorrissey@ensolum.com															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	GDOC TX	Remarks					
13:00	10/13/2022	S	1	SW05	1	X	X			X				napp2222956552					
13:05	10/13/2022	S	1	SW06	2	X	X			X									
13:10	10/13/2022	S	1	SW07	3	X	X			X									
13:15	10/13/2022	S	1	SW08	4	X	X			X									
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(45deg); transform-origin: center;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em;">K</div> </div>																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
								10-13-22		5:50		Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3							
		10-13-22		6:00p				10-14-22		14:20									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C 4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			


envirotech

Envirotech Analytical Laboratory

Printed: 10/14/2022 2:52:20PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	EOG Resources	Date Received:	10/14/22 14:20	Work Order ID:	E210078
Phone:	(575) 748-4217	Date Logged In:	10/14/22 14:47	Logged In By:	Alexa Michaels
Email:	shyde@ensolum.com	Due Date:	10/20/22 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



APPENDIX D

NMOCD Notifications

From: [Amber Griffin](#)
To: [Tacoma Morrissey](#); [Stuart Hyde](#)
Subject: FW: [EXTERNAL] Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification
Date: Thursday, October 6, 2022 1:34:11 PM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL **]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, October 6, 2022 11:04 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, October 6, 2022 9:25 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Subject: FW: [EXTERNAL] Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina

Thank you for the notification. Please 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.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, October 6, 2022 8:22 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, October 6, 2022 8:15 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>

Subject: [EXTERNAL] Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

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

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1
H-26-16S-37E
Lea County, NM
nAPP2222956138 & nAPP2222956552

Sampling will begin at 8:30 a.m. on Thursday, October 13, 2022 and continue through Friday, October 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Amber Griffin](#)
To: [Tacoma Morrissey](#); [Stuart Hyde](#)
Subject: FW: Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification
Date: Thursday, October 6, 2022 9:18:59 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, October 6, 2022 8:16 AM
To: ocd.enviro@emnrd.nm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1
H-26-16S-37E
Lea County, NM
nAPP2222956138 & nAPP2222956552

Sampling will begin at 8:30 a.m. on Thursday, October 13, 2022 and continue through Friday, October 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: Fwd: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification
Date: Thursday, September 15, 2022 7:49:47 PM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Get [Outlook for iOS](#)

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 15, 2022 6:37 PM
To: emnrd-ocd-district1spills@state.nm.us <emnrd-ocd-district1spills@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good evening,

EOG Resources, Inc. respectfully requests to extend the sampling to Friday, September 16, 2022 starting at 9:30 a.m.

Thank you,

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 8, 2022 8:12 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: RE: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

I have highlighted the correct date. Sorry for any confusion.

Thank you.

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 8, 2022 7:59 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1 - Wellhead
H-26-16S-37E
Lea County, NM
nAPP2222956552

Sampling will begin at 8:30 a.m. on Wednesday, September 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: FW: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification
Date: Tuesday, September 13, 2022 10:16:18 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL **]

FYI on the Brown sampling notification.

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, September 13, 2022 9:14 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

A slight change has been made to the below sampling and has now been moved to 11:30 AM on Thursday, September 15, 2022.

Sorry for any inconvenience this may cause.

Thank you.

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 8, 2022 7:59 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1 - Wellhead
H-26-16S-37E
Lea County, NM

nAPP2222956552

Sampling will begin at 8:30 a.m. on Wednesday, September 14, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: FW: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification
Date: Thursday, September 8, 2022 9:18:51 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 8, 2022 8:12 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: RE: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

I have highlighted the correct date. Sorry for any confusion.

Thank you.

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 8, 2022 7:59 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 - Wellhead (nAPP2222956552) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1 - Wellhead
H-26-16S-37E
Lea County, NM
nAPP2222956552

Sampling will begin at 8:30 a.m. on **Wednesday, September 14, 2022.**

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: tina_huerta@eogresources.com



Artesia Division

From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: FW: Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification
Date: Thursday, August 25, 2022 10:08:25 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, August 25, 2022 7:09 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 (nAPP2222956138 & nAPP2222956552) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1
H-26-16S-37E
Lea County, NM
nAPP2222956138 & nAPP2222956552

Sampling will begin at 8:30 a.m. on Monday, August 29, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: FW: Brown SWD 1 Sampling Notification
Date: Wednesday, June 29, 2022 4:02:01 PM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, June 29, 2022 2:48 PM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1
H-26-16S-37E
Lea County, NM

Sampling will begin at 9:00 a.m. on Thursday, July 7, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division

From: [Amber Griffin](#)
To: [Tacoma Morrissey](#)
Subject: FW: Brown SWD 1 Sampling Notification
Date: Wednesday, June 29, 2022 4:02:01 PM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, June 29, 2022 2:48 PM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Brown SWD 1 Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Brown SWD 1
H-26-16S-37E
Lea County, NM

Sampling will begin at 9:00 a.m. on Thursday, July 7, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Artesia Division



APPENDIX D

Final Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2222956552
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc	OGRID 7377
Contact Name Amber Griffin	Contact Telephone 575-748-1471
Contact email amber_griffin@eogresources.com	Incident # nAPP2222956552
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.8949471 Longitude -103.2138824
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Brown SWD #1	Site Type Wellhead
Date Release Discovered 8/17/2022	API# (if applicable) 30-025-29842

Unit Letter	Section	Township	Range	County
H	26	16S	37E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Brand West Farms LLC)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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 Historical impacts were discovered during the decommissioning of the location. The environmental consultant contracted to investigate the area determined on 8/17/2022, based on impacted area footprint, that the release more than likely breached the reportable volume threshold.

Incident ID	NAPP2222956552
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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>Amber Griffin</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u></u>	Date: <u>8/17/2022</u>
email: <u>amber_griffin@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/18/2022</u>

Incident ID	nAPP2222956552
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>98 ft (bgs)</u>
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

Incident ID	nAPP2222956552
District RP	
Facility ID	
Application ID	

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

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: *Amber Griffin* Date: 10/31/2022

email: amber_griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 10/31/2022

Incident ID	nAPP2222956552
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr
Signature: Amber Griffin Date: 10/31/2022
email: amber_griffin@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon Date: 10/31/2022

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

Closure Approved by: Jennifer Nobui Date: 11/23/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

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

CONDITIONS

Action 154853

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 154853
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	11/23/2022