Page 1 of 111

Incident ID	NAB1911943617
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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/16/2022
email: <u>dale.woodall@dvn.com</u>	Telephone: 575-748-1838
OCD Only	
Received by: Robert Hamlet	Date: 2/13/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 2/13/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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Incident ID	NAB1911943617
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 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced to the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date:11/16/2022
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

DEVON ENERGY Cotton Draw Unit #10 Fed Com 2H

Closure Plan

UL A, Section 10, T25S, R31E Eddy County, New Mexico

2RP4804, NAB1816432279 2RP-5375, NAB1911943617

August 22, 2022



Prepared for:

Devon Energy 6488 Seven Rivers Hwy Artesia, NM 88210

By:

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

Company Contacts

Representative	Company	Telephone	E-mail
Dale Woodall	Devon Energy	575-748-1838	Dale.Woodall@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a release at the Cotton Draw Unit #10 Fed Com H location. This site is situated in UL A, Section 10, Township 25S and Range 31E, in Eddy County New Mexico. We are addressing the release in this plan which will be remediated upon plan approval. There are two releases at this location: 2RP4804, NAB1816432279 and 2RP-5375, NAB1911943617.

Release 2RP4804, NAB1816432279

C-141, 2RP4804, dated 6-08-2018, reports the lease operator arrived on location and discovered oil coming from out of the pop off on the heater. The lease operator switched to the test vessel and isolated the heater to stop the release from occurring. Approximately 11.7bbls of oil was released and 0 bbls were recovered. The total size of the affected area is approximately 80' x 60'. All fluids remained on location.

Release 2RP-5375, NAB1911943617

C-141 NAB1911943617, dated October 23, 2018, reports that a heater treater over pressured. Repairs were made and approximately 15.441bbls of produced water was released and 12 bbls of produced water was recovered.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. The nearest water well to the location records water level at 390.27 on 1/28/1976 which does not successfully establish current water levels in the area. However, on 4/25/2022, Devon made Application for Permit to Drill a well with No Water Right (WR-07) #C-4632 to install a soil boring at 32.152075, -103.761405 to the depth of 55' BGS. On 5/24/2022, the application was approved, and the soil boring was installed to a depth BGS of 55' on 6/08/2022. The borehole was left open for the required 72 hours and no water was encountered. The soil boring was plugged on 6/14/2022. (See Evidence Documents).

Characterization

Both releases have been fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

Release Area 2RP4804, NAB1816432279 Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing.

The results of the analytical are captured in the summary tables below.

		AH1 @ SURFACE	AH1 @ 1'	AH1 @ 2'	AH1 @ 3'
Analyte	Method	2/11/20	2/11/20	2/11/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	< 0.050	< 0.050	< 0.050	ND
Toluene	BTEX 8021B	<0.050	< 0.050	< 0.050	ND
Ethylbenzene	BTEX 8021B	<0.050	< 0.050	< 0.050	ND
Total Xylenes	BTEX 8021B	<0.150	<0.150	<0.150	ND
Total BTEX	BTEX 8021B	< 0.300	< 0.300	< 0.300	N/A
Chloride	SM4500CI-B	10400	656	1170	ND
GRO	TPH 8015M	75.9	<10.0	<10.0	ND
DRO	TPH 8015M	12100	17.4	<10.0	ND
EXT DRO/MRO	TPH 8015M	2360	<10.0	<10.0	ND

		AH2 @ SURFACE	AH2 @ 1'	AH2 @ 2'	AH2 @ 2.5'
Analyte	Method	2/11/20	2/11/20	2/11/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	< 0.050	< 0.050	< 0.050	ND
Toluene	BTEX 8021B	< 0.050	< 0.050	< 0.050	ND
Ethylbenzene	BTEX 8021B	0.236	< 0.050	< 0.050	ND
Total Xylenes	BTEX 8021B	<0.150	<0.150	<0.150	ND
Total BTEX	BTEX 8021B	< 0.300	< 0.300	< 0.300	N/A
Chloride	SM4500CI-B	7460	624	1230	ND
GRO	TPH 8015M	11.2	<10.0	<10.0	ND
DRO	TPH 8015M	5120	19.7	<10.0	ND
EXT DRO/MRO	TPH 8015M	1290	<10.0	<10.0	ND

		AH3 @ SURFACE	AH3 @ 1'	AH3 @ 2'
Analyte	Method	2/11/20	2/11/20	2/11/20
		mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	<0.050	<0.050	< 0.050
Toluene	BTEX 8021B	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B	5520	640	144
GRO	TPH 8015M	<10.0	<10.0	<10.0
DRO	TPH 8015M	7330	<10.0	<10.0
EXT DRO	TPH 8015M	1180	<10.0	<10.0

		AH4 @ SURFACE	AH4 @ 1'	AH4 @ 2'
Analyte	Method	2/11/20	2/11/20	2/11/20
		mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B	0.38	< 0.050	< 0.050
Total Xylenes	BTEX 8021B	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B	0.38	< 0.300	< 0.300

		AH4 @ SURFACE	AH4 @ 1'	AH4 @ 2'
Analyte	Method	2/11/20	2/11/20	2/11/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	1100	640	160
GRO	TPH 8015M	16.5	<10.0	12.8
DRO	TPH 8015M	4020	35.1	<10.0
EXT DRO	TPH 8015M	811	<10.0	<10.0

Horizontal		H-5 north	H-6 West	H-7 Southwest	H-8 South	H-9 East
Analyte	Method	8/11/20	8/11/20	8/11/20	8/11/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B	ND	ND	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND	ND	ND
Total Xylenes	BTEX 8021B	ND	ND	ND	ND	ND
Total BTEX	BTEX 8021B	N/A	N/A	N/A	N/A	N/A
Chloride	SM4500CI-B	ND	160	190	77	89
GRO	TPH 8015M	ND	ND	ND	ND	ND
DRO	TPH 8015M	34	18	21	ND	ND
EXT DRO/MRO	TPH 8015M	ND	ND	ND	ND	ND

Based on the results of the soil boring installed on 6/8/2022, SESI respectfully requests that the closure criteria in Table 1 in Title 19 Chapter 15 part 21 NMAC be used for this release. The soil boring proved the depth to groundwater within ½ mile of the release location is more than 51' BGS. The table allows leaving Chlorides of 10,000 mg/kg, TPH (GRO+DRO+MRO) of 2,500 mg/kg, GRO + DRO of 1,000 mg/kg, BTEX 50mg/kg, and Benzene of 10 mg/kg.

The sampling results do not meet this criterion. Based on the results above for vertical extent samples AH-1 through AH-4, SESI proposes the entire release area (approximately 1,161 square feet) be excavated to a depth of approximately 1' where closure target levels may be found.

Based on the results above for horizontal extent samples H-5 through H-8, the horizontal extent of this release has been identified.

Release Area 2RP-5375, NAB1911943617 Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing.

The results of the analytical are captured in the summary table below.

		AH-1 @ Surface	AH-1 @ 1'	AH-1 @ 2'
Analyte	Method	2/21/20	2/21/20	2/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	260	ND	ND
DRO	TPH 8015M	28000	1100	73
MRO	TPH 8015M	11000	550	ND

		AH-1 @ Surface	AH-1 @ 1'	AH-1 @ 2'
Analyte	Method	2/21/20	2/21/20	2/21/20
		mg/kg	mg/kg	mg/kg
GRO	TPH 8015M	350	40	ND
Benzene	BTEX 8021B	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND
Total Xylenes	BTEX 8021B	ND	ND	ND

		AH-2 @ Surface	AH-2 @ 1'	AH-2 @ 2'
Analyte	Method	2/21/20	2/21/20	2/21/20
		mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	110	ND	ND
DRO	TPH 8015M	12000	630	160
MRO	TPH 8015M	6200	250	88
GRO	TPH 8015M	120	69	7.3
Benzene	BTEX 8021B	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND
Total Xylenes	BTEX 8021B	ND	0.12	ND

		AH-3 @ Surface	AH-3 @ 1'	AH-3 @ 2'	AH-3 @ 2.5'
Analyte	Method	2/21/20	2/21/20	2/21/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	260	ND	ND	170
DRO	TPH 8015M	29000	740	180	ND
MRO	TPH 8015M	11000	400	91	ND
GRO	TPH 8015M	230	29	ND	ND
Benzene	BTEX 8021B	ND	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND	ND
Total Xylenes	BTEX 8021B	0.53	ND	ND	ND

		AH-4 @ Surface	AH-4 @ 1'	AH-4 @ 2'	AH-4 @ 3'
Analyte	Method	2/21/20	2/21/20	2/21/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	110	ND	ND	180
DRO	TPH 8015M	13000	730	250	ND
MRO	TPH 8015M	6500	300	130	ND
GRO	TPH 8015M	130	68	12	ND
Benzene	BTEX 8021B	ND	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND	ND
Total Xylenes	BTEX 8021B	ND	0.2	ND	ND

		UC1
Analyte	Method	2/21/20
		mg/kg
Chloride	SM4500CI-B	ND
DRO	TPH 8015M	ND
MRO	TPH 8015M	ND
GRO	TPH 8015M	ND
Benzene	BTEX 8021B	ND
Toluene	BTEX 8021B	ND
Ethylbenzene	BTEX 8021B	ND
Total Xylenes	BTEX 8021B	ND

Horizontal		H-5 West	H-6 Southwest	H-7 South	H-8 East	H-9 Northeast	H-10 Northwest
Analyte	Method	8/11/20	8/11/20	8/11/20	8/11/20	8/11/20	8/11/20
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B	190	ND	110	ND	180	79
DRO	TPH 8015M	15	ND	ND	ND	16	ND
MRO	TPH 8015M	ND	ND	ND	ND	ND	ND
GRO	TPH 8015M	ND	ND	ND	ND	ND	ND
Benzene	BTEX 8021B	ND	ND	ND	ND	ND	ND
Toluene	BTEX 8021B	ND	ND	ND	ND	ND	ND
Ethylbenzene	BTEX 8021B	ND	ND	ND	ND	ND	ND
Total Xylenes	BTEX 8021B	ND	ND	ND	ND	ND	ND

Based on the results of the soil boring installed on 6/8/2022, SESI respectfully requests that the closure criteria in Table 1 in Title 19 Chapter 15 part 21 NMAC be used for this release. The soil boring proved the depth to groundwater within ½ mile of the release location is more than 51' BGS. The table allows leaving Chlorides of 10,000 mg/kg, TPH (GRO+DRO+MRO) of 2,500 mg/kg, GRO + DRO of 1,000 mg/kg, BTEX 50mg/kg, and Benzene of 10 mg/kg.

The sampling results do not meet this criterion. Based on the results above for vertical extent samples AH-1 through AH-4, SESI proposes the entire release area (approximately 5,609 square feet) be excavated to a depth of approximately 1' where closure target levels may be found.

Release Area 2RP-5375, NAB1911943617 Work Performed

On March 25, 2020, SESI was onsite to hand excavate a portion of this release. Approximately 317 square feet of the release area was excavated by hand to a depth of 1'. The excavated soil was transported to and NMOCD approved disposal facility. The excavation was backfilled with fresh caliche and returned to previous grade.

SESI personnel tracked and mapped the release and sampled the bottom of the excavation. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing.

The results of the analytical are captured in the summary tables below.

		SP1 @ 1'
Analyte	Method	3/30/20
		mg/kg
Chloride	SM4500CI-B	580
DRO	TPH 8015M	ND
MRO	TPH 8015M	ND
GRO	TPH 8015M	ND
Benzene	BTEX 8021B	ND
Toluene	BTEX 8021B	ND
Ethylbenzene	BTEX 8021B	ND
Total Xylenes	BTEX 8021B	ND

		SP2 @ 1'
Analyte	Method	3/30/20
		mg/kg
Chloride	SM4500CI-B	590
DRO	TPH 8015M	ND
MRO	TPH 8015M	ND
GRO	TPH 8015M	ND
Benzene	BTEX 8021B	ND
Toluene	BTEX 8021B	ND
Ethylbenzene	BTEX 8021B	ND
Total Xylenes	BTEX 8021B	ND

Based on the results above for confirmation samples SP1 and SP2, and the results of the soil boring installed on 6/1/2022, SESI respectfully requests that this area of the release be closed using the closure criteria in Table 1 in Title 19 Chapter 15 part 21 NMAC. The soil boring proved the depth to groundwater within $\frac{1}{2}$ mile of the spill location is over 51' BGS.

The table allows leaving Chlorides of 10,000 mg/kg, TPH (GRO+DRO+MRO) of 2,500 mg/kg, GRO + DRO of 1,000 mg/kg, BTEX 50mg/kg, and Benzene of 10 mg/kg. Sampling results meet this criterion.

Of the remaining 5,292 square feet of this release area, only 1,869 square feet can be excavated by mechanical means to the depth of 1'. Approximately 3,423 square feet of this release area is under production vessels and associated piping and will cannot be excavated using mechanized equipment. SESI proposes that this area be deferred until the decommissioning of this location. (See Photos of Area for Proposed Deferment).

Action Plan Release Area 2RP-5375, NAB1911943617

SESI proposes the 1,869 square foot area be excavated to the depth of 1'. The excavated soil will be transported to an NMOCD approved disposal facility. Notice of confirmation sampling will be given to Devon prior to sampling of the sides and bottom of this excavation. Once the results of the confirmation sampling are received and meet the closure criterion, the excavation will be backfilled with fresh caliche and returned to grade.

Supplemental and Supporting Documentation

Evidence Document 1: Map of Release area, with vertical and horizontal extent sample

locations

Evidence Document 2: NMOCD Oil and Gas Topo map detailing area water features

Evidence Document 3: Photos (Excavation and Deferral Area)

Evidence Document 4: NMOSE Form WR-07 Evidence Document 5 NMOSE Approval Evidence Document 6 Plugging Plan

Evidence Document 7: Well Log

Evidence Document 8: BLM Cave Karst map showing location in low potential area Evidence Document 9: FEMA demonstrating minimal flood hazards for this area

Evidence Document 10: Lab analysis for Release area



OSE POD Locations Map



8/31/2022, 10:55:59 AM

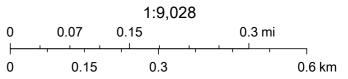
GIS WATERS PODs

New Mexico State Trust Lands

Active

OSE District Boundary SiteBoundaries

Subsurface Estate



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Received by OCD: 11/16/2022 2:10:24 PM

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New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

(acre ft per annum) C=the file is closed)

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

 Sub
 Well
 q q q

 WR File Nbr
 basin
 Use
 Diversion
 Owner
 County POD Number
 Tag
 Code Grant
 Source
 6416 4
 Sec
 Tws
 Rng
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 Y

 C 04632
 CUB
 EXP
 0
 DEVON ENERGY
 ED
 C 04632 POD1
 NA
 1
 2
 2
 10
 25S
 31E
 616802
 3557964

Record Count: 1

POD Search:

POD Number: C 04632

Sorted by: File Number

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



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USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	•	New Mexico	▼	GO

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- Full News 🔯

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320932103443801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320932103443801 25S.31E.02.23441

Eddy County, New Mexico Latitude 32°09'37.4", Longitude 103°44'29.6" NAD83 Land-surface elevation 3,460.00 feet above NGVD29

The depth of the well is 1,016 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of da	<u>ıta</u>									
Tab-separa	ited data									
Graph of da	<u>ata</u>									
Reselect pe	eriod_									
Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source o measure
1966-08-1			400.00				2		U	
1976-01-2	28	[390.27				2	I	U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

<u>Questions about sites/data?</u> <u>Feedback on this web site</u> Automated retrievals <u>Help</u> **Data Tips Explanation of terms** Subscribe for system changes **News**

Accessibility Plug-Ins Policies and Notices FOIA Privacy

U.S. Department of the Interior | U.S. Geological Survey. Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2020-03-25 12:35:26 EDT

1.61 0.25 nadww01



Devon – Cotton Draw Unit #10 Fed Com 2H Excavation Photos









Devon – Cotton Draw Unit #10 Fed Com 2H Excavation Photos









Devon – Cotton Draw Unit #10 Fed Com 2H Deferral Area Photos









Fle No. C _ O4632

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

Purpose:	Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
Exploratory Well (Pump test)	Construction Site/Put Works Dewatering	blic Other(Describe): Groundwater Determination
Monitoring Well	☐ Mine Dewstering	
A separate permit will be required	to apply water to beneficial u	se regardless if use is consumptive or nonconsumptive.
☐ Temporary Request - Request	ed Start Date:	Requested End Date:
Plugging Plan of Operations Subn	nitted? Yes No	
APPLICANT(S)		
		Name:
Name:		Name:
Name:	check here if Agent	Name: Contact or Agent: check here if Agent
Name: Devon Energy Contact or Agent:	check here if Agent	
Name: Devon Energy Contact or Agent: Dale Woodall Mailing Address:	check here if Agent	
Name: Devon Energy Contact or Agent: Dale Woodall Mailing Address: 6488 7 Rivers Hwy	check here if Agent	Contact or Agent: check here if Agent Mailing Address:
Devon Energy Contact or Agent: Dale Woodall Mailing Address: 6488 7 Rivers Hwy City:	check here if Agent	Contact or Agent: check here if Agent
Name: Devon Energy Contact or Agent: Dale Woodall Mailing Address: 6488 7 Rivers Hwy City:		Contact or Agent: check here if Agent Malling Address: City:
Name: Devon Energy Contact or Agent: Dale Woodall Meiling Address: B488 7 Rivers Hwy City: Artesis	check here if Agent ☐ Zip Code: 88210	Contact or Agent: check here if Agent Malling Address: City:
Name: Devon Energy Contact or Agent: Dale Woodall Meiling Address: B488 7 Rivers Hwy City: Artesia State:	Zip Code:	Contact or Agent: check here if Agent Malling Address: City:
Name: Devon Energy Contact or Agent: Dale Woodall Mailing Address: 6488 7 Rivers Hwy City: Artesis State: NM	Zip Code: 88210	Contact or Agent: check here if Agent Mailing Address: City: State: Zip Code:
Name: Devon Energy Contact or Agent: Dale Woodall Mailing Address: 6488 7 Rivers Hwy City: Artesia State: NM Phone: 575-748-1838	Zip Code: 88210	Contact or Agent: check here if Agent Mailing Address: City: State Zip Code; Phone:

USE DII MAY 12 2022 M1:33

FOR OSE INTERNAL USE	Application for F	Permit, Form WR-0	7, Rev 11/17/18
FILE NO .: C- O463	2 Tm. No.: 7	24249	Receipt No. 2-44510
Trans Description (optional):	10 25	5 312	1.2.2
Sub-Basin:		PCW/LOG Due	Date: 5124123
		-	Dane 1 of 3

2. WELL(\$) Describe the well(s) applicable to this application.

☐ NM State Plane (NAD83) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone	Е	JTM (NAD83) (Mete]Zone 12N]Zone 13N	rs) E Lat/Long (WGS84) (to the nearest 1/10 th of second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Haives, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
C-04432POD1 (TW-1) -	-103*45*41.06*	32*9'7.47"	NW NE NE Sec.10 T25S R31€NMPM
Additional well descriptions Other description relating well te ID:20	s are attached:	Yes No	WR-98 (Attachment 1 – POD Descriptions) If yes, how many
Additional well descriptions Other description relating well ite ID:20 ocation Name:Cotton Draw U	s are attached: i to common landmar init 134H	Yes No ks, streets, or other	If yes, how many
Additional well descriptions Other description relating well ite ID:20 ocation Name:Cotton Draw U Well is on land owned by: Bun Well Information: NOTE: If n	s are attached: if to common landman init 134H eau of Land Manager	Yes No ks, streets, or other ment	If yes, how many
Additional well descriptions Other description relating well ite ID:20 ocation Name:Cotton Draw U Well is on land owned by: Bun If yes, how many	s are attached: if to common landmark init 134H eau of Land Manager nore than one (1) we	Yes No ks, streets, or other: ment ell needs to be des	If yes, how many
Additional well descriptions Other description relating well ite ID:20 ocation Name:Cotton Draw U Well is on land owned by: Bun Well Information: NOTE: If n If yes, how many Approximate depth of well (fee	s are attached: to common landmark init 134H eau of Land Manager nore than one (1) we	Yes No ks, streets, or other ment ell needs to be des	If yes, how many
Additional well descriptions Other description relating well lite ID:20 ocation Name:Cotton Draw U Well is on land owned by: Bun Well Information; NOTE: If n If yes, how many Approximate depth of well (fee Driller Name: Jackie D. Atkins ADDITIONAL STATEMENTS Soil Boring to determine depth emporary well will be in place upgers as tremie to land a slum	s are attached: I to common landmark Init 134H eau of Land Manager more than one (1) we et): 55 COR EXPLANATION In up to 55 feet. Temp for minimum of 72 ho by of Portland TYPE is	Yes No ks, streets, or other ment ell needs to be des corary PVC well ma burs, if ground wate ill Neat cement less	oribed, provide attachment. Attached? Yes No

FOR OSE INTERNAL USE

Tm No .: 7- 26269 File No.: Page 2 of 3

4. SF	ECIFIC REQUIREMENTS:	The applicant must	include the following,	as applicable t	o each well type	. Please ch	eck the appropriat
boxe	s, to indicate the information	has been included:	and/or attached to thi	s application:			

Exploratory: Include a description of any proposed pump test, if applicable.	Pollution Control and/or Recovery: Include a plan for pollution control/recovery, that includes the following: A description of the need for the pollution control or recovery operation. The estimated maximum period of time for completion of the operation. The annual diversion amount. The annual consumptive use amount. The maximum amount of water to be diverted and injected for the duration of the operation.	Construction De-Watering: Include a description of the proposed dewatering operation, The estimated duration of the operation, The maximum amount of water to be diverted, A description of the need for the dewatering operation, and, A description of how the diverted water will be disposed of.	Mine De-Watering: Include a plan for pollution control/recovery, that includes the following: A description of the need for mine dewatering. The estimated maximum period of time for completion of the operation. The source(s) of the water to be diverted. The geohydrologic characteristics of the aquifer(s). The maximum amount of water to be diverted per annum. The maximum amount of water to be diverted for the duration of the operation. The quality of the water.
Monitoring: Include the reason for the monitoring well, and, The duration of the planned monitoring.	☐ The method and place of discharge. ☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	Ground Source Heat Pump: Include a description of the geothermal heat exchange project, The number of boreholes for the completed project and required depths. The time frame for constructing the geothermal heat exchange project, and, The duration of the project. Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
I, We (name of affirm that the final woodals)	Pr oregoing statements are true to the best of (int Name(s)	
Applicant Signs	The state of the s	Applicant Signature	0
	ACTION	OF THE STATE ENGINEER	
	/	This application is:	
	□ approved	U100014200000000000000000000000000000000	denied
	not exercised to the detriment of any others trimental to the public welfare and further s		
Witness my har	and and seal this 24 day of 8	ay 20 22.	for the State Engineer,
mik	e Hamman P.S	State Engineer	0SE-011-MAY 12 2022 m1/33
By: Signature	K. rowera-	Print	Jap Tareby
Title: US	over Resource	manager.	Ľ
- A15 26 27	FOR OS	SE INTERNAL USE	Application for Permit, Form WR-07
	File No.	C-04632	Tm No. 7212149

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PORM at-COPY

1.8ABE NO. R-4562

APPLICATION NO

OIL AND GAS LEASE

17th	M	Novembe

ar A.D., 10. THIS AGREEMENT, dated this the. day of. and interest into by and between the state of New Moxico, rother by one through the undersigned, its commissioner lands, theteurite duly outberied, party of the flori part and hereinalter called the "lease", and of public

TIKACO, INC.

P. O. Box 3109, Midland, Texas

parky of the accord part, hereinofter railed the "leases", whother one or more,

WITHKISSETH

Martha an

WHEREAS, the said leace has filed in the office of the remmissioner of public lands on application for on oil and gas lease covering the lands hereinefter sexcribed and has bridered therewith the required first passment being not less than the actount required by law and by the rules and regulations of the New Marico State Land Office; and

WHEREAS, all of the requirements of law rolative to enid application and tender have been duly compiled with and said application has been approved and allowed by the commissioner of public lands;

HEREFORE, loc and in consideration of the fromtises or well as the sum of PORTY TWO THOUSAND

AND NO/100 DOLLARS 18 42,000.00 . Dollars.

the same bring the amount of gregorier above multipred, said is each and evidenced by official receipt to 18-07951 filling fee, and of the covenants and agreements burningfur contained on the part and of the Jurther rum of \$... of the leases to be paid, kept and performed, the said leaser has granted and demised. Seased and let, and by these presents does grante familia, lease and let unto the said leases, exclusively, for the said only purpose of exploration, development and production of oil or gos, or both thereos and therefrom with the right to own all mi and gos so produced and saved there-from and old reserved as royalty by the lesser under the terms of this lesses, together with night of ways, essentiate and sarvitudes for jijulines, telephone and telegraph lines, tonks, power houses, stations, possible plants, and fixtures for producing, treating and chring for such products, and housing and bearing employees, and any and all rights and privileges necessors. Incident to of exercises for the economical operation of sold land, for all and gas, with right for such purposes to the free use of oil, and cooling-head gas, or water from said lands, but not from leaver's water wells, and with the rights of removing either during or after the term hereof, all and any improvements phosed or arected on the premises by the lesses. Including the right to pay hill proper subject, however, to the conditions hereinsdier set out, the following described land electrical in the county of the following described as follows:

Line	BUBDIVIBION	Sec.	Twp.	Hge.	Acres	Institution	
1	Lot 3 (39.88), Lot 4(39.66), 8307, 83	2	258	31E	639.92	CS	
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3	COLUMN TO SERVICE DESCRIPTION OF THE PERSON	y	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			,	
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Said lands having been awarded to leaves and designated as Tract No WOVERMENT 17th ...64at a public sale hold by the 19⁶⁴ (To be filled in only where lends are offered at public commissioner of public legals on....

To have and to hold said land, and all the rights and privileges granted hercunder, to and unto the losses for a primary term of five years from the date hercol, and as long therealter as oil and gas in paying quantities, or either of them, is produced from said land by the lesses, subject to all of the terms and conditions as hereinafter set forth.

the consideration of the previous the parties convenent and agree as follows:

- 1. Subject to the free use without reyelty, as hereinbefore grovided, the leases shall pay the leaser as revelly enceelghth; part of the oil produced and saved from the leaser premises or the cash value thereof, at the option of the leaser, such value to be the price prevelling the day oil is run into a pipeline. If the oil be run into a pipeline, or into storage tanks, if the oil be assend
- 2. Subject to the free use without royalty, as hereinbefore provided, the leases shall pay the leaser as royalty one-eighth of the cash value of gas, including easing head gas, produced and saved from the leased precises and marketed or utilized, such value to be equal to the greater of the following amounts:
 - ((e)), the net proceeds derived from the sale of such gas in the field, or
 - (b) Two conts (\$0.05) per thousand cubic fact (m.c.f.) the volume of gas for such purposes to be computed on a pressure basis of 10 ciness above an assured straspheric pressure of 14.4 pounds per square inch, or 15.025 pounds per square inch absolute, at 00° Fohrenheit, and purposes to appropriate regulations of the commissioner of public lands which may provide, smeng other things, for a flowing temperature of 60° Fahrenheit to be assured and applied in whites to emplayate in all cases where a recogning theoretical in our employed by the lease in gas measurement, and for specific gravity tests at the leases of expense at intervals not greater than the year in all cases where a recogning theoretic parameter is not employed by the leases in gas measurement; provided, however, the each value for recognity purposes of carbon distribute pas and of hydrocarbon gas delivered to a gas-alter plant for extraction of liquid hydrocorbons shall be equal to the net proceeds derived from the sale of gas, including any liquid hydrocorbons recovered therefore.

Notwithstanding the feregoing provisions, the leaser acting by its reministeners of public lands, may require the payment of royalty for all or any part of the gaz produced and excell under this lease and marketed or utilized at a price per m.c.f. equal to the maximum price being paid for gas of like kind and quality and under like conditions in the same field or area or may reduce the royalty whose of any such gas to only account not less than the net protects of call thereof in the field if the commissioner of public lands shall determine such action to be necessary to the successful operation of the lands for oil or gas purposes or to encouragement of the greatest ultimate recovery of oil or gas or to the promption of conservation of oil or

This isnot shall not extrice at the end of ofther the primary or recondery seem hereof it there is a well capable of producing the in paying quantities located upon some part of the lends embraced betein where such well is shut-in due to the installing of the lends upon which such well is located shall pay or annual royalty equal to the annual royalty to be paid on or before the terms of this lends but not less than one handred dellars (\$1000) per well per year, said royalty to be paid on or before said routed feet the terms crossing after the explestion of ninety days from the date said well was shut-in ord on or before said routed date thereafter. The payment of said annual royalty chall be considered for all purposes the same as if gas were being produced in paying quantities and upon the commensurem of morketing of gas from said well or walls the royalty paid for the lense year in which the gas is first marketed shall be credited upon the royalty payable hereunder to the least for said year. The provisions of this scalles shall also apply where gas is being marketed from soid lessabled premittee and through no tout of the lessee, the physics connection or market is lost or couses, in which case this lense shall not expire so long as and annual royalty is paid as herein provided. Marketishnianding the provisions of this socien to the contrary, this lense shall not be remarked absolute the remarket and annual royalty is paid as herein provided. Marketishnianding the provision to the contrary, this lense shall not be remarked all not be remarked and annual royalty in the data hereof for any period of more than time seems by the physics. of said annual revalty.

- 3. Leases agrees to make full settlement on the 20th day of each month for all reveilles due the leaser for the proceeding month, under this lease, and to permit the leaser or its agents, at all renormable hours, to examine leaser's backs relating to the production and disposition of oil and gas produced. Leaser further agrees to submit to leaser annually upof forms furnished by leaser, varietied reports showing leaser's operations for the proceeding year.
 - 4. It is expressly agreed that the consideration hareinbefore specified is a good, valid and substantial consideration and sufficient in all respects to support each and every covenant herein, including specifically the option granted the insect to prevent the termination of this lesse that prevent the termination of this lesse that year to year, by the payment or tender of the further restal hereinalter provided for.

An annual rental at the rate of ______ per sere shall become due and payable to the lesser by the lesser, or by any transferor or assignment approved the same, or any part bereal, where such transferor or assignment approved by the lesser as hereinafter provided, upon each acre of the land above described and then determined by such lesser, transferor assignment approved by the lesser on the such cases, transferor a surgice becomes for all the same shall be the and payable in advance to the lesser on the successive antiversory dates of this lesse, but the annual rantel on any assignment shall in no event be less than six

In the event the leaser shall elect to surrecter any or all of read acreeze, he shall deliver to the commissioner a dely accounted release thereof and in event said lease has been recovered, then he shall upon request furnish and deliver to each commissioner a certified copy of a duly recorded release.

- 5. The leave may at may time by posing to the state of New Mexico, acting by its commissioner of public lands, or other authorized officer, all amounts these two no provided herein and the further num of ten dollars (\$10.00), surrender and cancel this leave inselve as the same covers all or any portion of the lands herein leaved and be relieved from further obligations or liability hereunder, in the manner as hereinbefore provided. Provided, this secrender clause and the option herein reserved to the leaves and become absolutely inoperative immediately and concurrently with the institution of any suit in any court of law or equity by the leaves, leave, or any sasignes, to enforce this leave, or any of its terms express or implied.
- 6. All payments due hereunder shall be made on or before the day such payment is due, in each or by certified eachenge at the office of the homeissioner of public lands in Scotts Fe. New Mexico.
- The lease with the consent of the lease, shall have the rights to assign this lease in whole or in part. Provided however, that we maigniment of an undivided interest in the lease or in any part thereof nor any assignment of less than a logal subdivision shall be recognized or approved by the leaser. Upon approved in writing he the leaser of as assignment, the assignment shall shand relieved from all obligations to the leaser with respect to the lands contracted in the assignment and the leaser shall likewise be relieved from all obligations to the assignment as to such thereis, and the essignment shall be rights and privileges at the assignment with respect to such that I said by lead to have assumed all of the duties and obligations of the nations to the leaser as to such tracts and shall be lead to have assumed all of the duties and obliga-
- 8. In the event a well or wells producing oil or gar in paying quantities should be brought in on adjacent land draining the leased premises, leases shell drill such effect well or wells as a resonably product operator would drill under the same or paraller circumstances
- 1. The losses agrees to notify the losser of the location of each well below commencing drilling thereon, to keep a complete and necessar by of each well drilled and to furnish a copy thereof, verified by sums person having actual knowledge of the facts to the losser upon the completion of any well, and to furnish the log of any unfinished well at any lime when requested to do so by the losser.

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If any lands embraced is this loose shall be included in any deed or contract of purchase autotanding and substitute is under the purchase autotanding and substitute as defining operation shall be commenced on any such lands prior to the date of this lease, it is agreed and understrood that as defining operation shall be commenced on any such lands as said unless and until the lease or his assignes shall have filled a great and sufficient hand with the leaser as required by law, to secure the payment for such damage to the fivestock, range, water, crops or langible improvements on such lands or may be suffered by the purchaser helding such deed or contract of gurchaser, or his successors, by reason of the developments, use and opcorpation of such lands by such leases. Provided, however, that no such bend shall be required if such parchaser shall waive the right to require such bend to be given in the manner provided by law.

- 10. In drilling walls all water-bearing strate shall be tested in the log, and the laseer reserves the right to require that all or any part of the order shall be laft in any nonproductive well when lessor deems it to the interest of the chito of New Mexico to maintain said well or wells for water. For such easing so left in wells the lesser shall pay to the lesser the resom-
- 11. Lesses shall be liable and agree to pay for all damages to the range, livestack, proving crops or improvements caused lesses's operations on said lands, When requested by the lesses, the lesses shall be pupilines below glow depth.

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- 12. Who leaves she removed by trackinery or listages placed on said product. draw the onday from any well unless and until all payments and obligations due the leaver under the forms of this determent shall have been said or sotistied. The leaves right to remove the cosing is subject to the provision of Paragraph 10 above.
- The issues a right to receive an example adopted to comply with any of the provisions or covenants hereof, the least is hereby authorized to cancel this inner and, such concellation shall extend to one include all rights hereunder as to the whole of the back so claimed, or provised by the leasts or assignees a defaulting, but shall not extend to, nor affect the rights of any other hoses or assignee claiming any portion of the lands upon which no dyfault has been made, provided, however, that before any such cancellation shall be made, the leasts shall not extend to restignee an defaulting, by registered mail, addressed to the post-office address of such leasts or easignee as shown by the receives of the state land office, a notice of intention of connectation specifying the datant for which cancellation is to be more, and if within thirty days from the data of mailing and notice the said leasts or settings that remedy the default specified as said notice, cancellation shall not be made.
- 14. All of the terms of this agreement shall extend to and bind the hairs, executors, ediministrators, successors and escaped throughout the horizon hereto.

 19. If the leases shall have failed to make discovery of oil or gas in paying quantities during the primary term hereof or the effect for an additional term of the years and as long thereafter as oil and gas in poying quantities or either of them is preduced from the leasest promises by paying each year is advance, as herein provided, double the restal provided herein for the primary term, or the highest restal providing of the commencement of the secondary term in any routed district, or districts in which the lands, or any pure thereof, may be situated, if it be greater then double the restal provided for the primary term, provided, however, each routed shall be paid within the time provided by Section 13 horses, and provided for the primary term provided, however, each routed shall be paid within the time provided by Section 13 horses, and provided for the primary term provided, however, each routed shall be decreased during the accordary term, hereal, but production should treat the producted of the control of the secondary term, hereal, but productes should treat in paying quantities is head, or of the secondary term of flow years as long as said trental is paid. Well if oil or gas in paying quantities is head, and of the secondary term of live years as long as and trental is paid. Well as the paying quantities or either of them is produced from the leased premises.
- The in paying quantities or either of them is produced from the leased premises.

 16. If this leave shall have been melatored in accordance with the provisions hereof and if at the expansion of the semipadare term provided for herein all or gas is not being produced on told fand but leaves or any assigned to their engaged inbone line drilling or resolution operations thereof, this leave shall remain in full force and effect so long as such operations
 are diligently preserved and, if they result in the production of oil or gas, as leng thereafter as all said gas in paying quantities,
 or either of them, is produced from said lend; provided, however, such expenditure extending beyond the settendary term shall
 be approved by the leaver upon written application filed with the leaver on or before the expansions of said from, and a report
 of the status of all such operations shall be made by the leaver to the leaver every thirty days and a consider of such operations for more than twenty consecutive days shall be considered as an abundanced of such operations and thereupen the previsions hereof shall be of no further force or effect. Operations considered and continued as toron provided shall extend this
 feace as to all leads as to which the some is in full faces and effect and of the time said driving operations are commenced;
 provided, however, this leave shall be subject to convolution for failure to pay ventals or to otherwise comply with the force
 point provisions of this section is accordance with Section 13 hereof.
- 17. Should production of oil or gas of either of there in poving quantities be obtained while this leave is in force and effect and should thereafter cases from any cause after the expiration of test years from the date beared this leave shall not terminate if leaves commences additional drilling or revariant operations within glavy days after the consultant of each production and shall pressed in full force and effect to king to such operations within glavy days after the consultant of more than twenty consecutive days, and if such operations result in the production of oil or gas in pushing quantities in produced from and tand; provided however, written notice of intention to commence, such operations shall be filled with the leaver within thetry tips after the transition of such production, and report of the status of such operations shall be made by the leaver to the leaver every thirty days, and the assestion of such operations for more than twenty consecutive days shall be considered as an abandonment of such operations and this leave shall thereupon terminate.

1971 in witness whereof, the party of the first part has bereante signed and caused its name to be signed by its commissioner of dubic lands thereunte duby sutherised, with the seal of his office affixed, and the lease has signed this agreement the day

and year area snows wrongs.		BIATE OF NEW MEXICO DANGE A	11
approved as to Terms ()	» E	S Demmaralder	1
Car - 1 / 1 1 19705 - 1	or in participality.	amhidioner of Public Lands, Leasor	
pproved as to Form: MYL.			
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	by: V	Markly (Bod)	2.5
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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- The well authorized by this permit shall be plugged completely 17-6 using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04632 POD1 File Number: C 04632 Trn Number: 726269

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.

 The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before, unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

Trn Desc: C 04632 POD1 File Number: C 04632
Trn Number: 726269

page: 2

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04632 POD1 must be completed and the Well Log filed on or before 05/24/2023.

IT IS THE PERMITTEE_S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 05/12/2022 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 24 day of May A.D., 2022

Mike A. Hamman, P.E., State Engineer

By: KASHYAP PAREKH

 Trn Desc:
 C 04632 POD1
 File Number:
 C 04632

 Trn Number:
 726269

page: 3

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 726269 File Nbr: C 04632

May. 26, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

Megen Telles (575)622-6521

Enclosure

explore



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/ egun/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well ennstruction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6954, or by email nmbg-waterlevels@amt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until

II. G	ENERAL/WELL OWN	ERSHIP:	Check here if proposing on	plan for multiple m	onitonng w	ells on the same site an	d attaching WD
Exist Name	ing Office of the State En	gincer POD Nur	nber (Well Number)	for well to be p	olugged:	C-6632-11	POD-1)
	ng address: 6488 7 River			Cou	inty:	Eddy	
	Artesia		State:	NM	10 33=	Zip code:	88210
Phon	e number: <u>575-748-1838</u>		E-mail;	Dale.Woodall@	gdvn.com	35-	
	VELL DRILLER INFOR	Company of the Compan	Jackie D. Atkins i	Atkins Enginee	ring Asso	ciates)	
	Mexico Well Driller Licens		ca.			04/30/2023	
		ar receive for the	well(s) to be plugged	should be attach		plan.	
-572	GPS Well Location:	Latitude: Longitude:	32deg,	9 min, 45 min.	7.47 41.06	sec, NAD 83	
-000		Latitude: Longitude: well(s):	32deg, 103deg,	9 min,	7,47 41.06	_sec	PM1:33
2)	GPS Well Location: Reason(s) for plugging	Latitude: Longitude: well(s): groundwater lev ype of monitoring trameters were in	32 deg,	9 min, 45 min. If yes, please I was used to	7.47 41.06	sec, NAD 83 DIT MAY 12 2022 on VII of this for pontaminated or p	m to detail
2)	GPS Well Location: Reason(s) for plugging Soil boring to determine Was well used for any t what hydrogeologic pa water, authorization fro Does the well tap brack	Latitude:	32 deg,	9 min, 45 min. If yes, please I was used to retiment may be re-	7.47 41.06 USE use secti nonitor of	sec, NAD 83 DIT MAY 12 2022 on VII of this for pontaminated or p	m to detail oor quality
1) 2) 3) 4)	GPS Well Location: Reason(s) for plugging Soil boring to determine Was well used for any t what hydrogeologic pa water, authorization fro	Latitude:	32 deg,	9 min, 45 min. If yes, please I was used to retirent may be re-	7.47 41.06 USE use section onitor of equired program of the control of the contr	_sec, NAD 83 DII MAY 12 2022 on VII of this for contaminated or plugging.	m to detail oor quality

WD-08 Well Plugging Plan Version: July 31, 2019 Page 1 of 5

7)	Inside diameter of innermost easing:1" or 2"inches.
8)	Casing material: Temporary PVC SCH 40
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s):
10)	What annular interval surrounding the artesian casing of this well is coment-grouted?
11)	Was the well built with surface casing?NOIf yes, is the annulus surrounding the surface casing grouted or otherwise scaled? If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well?NAIf not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
Note:	ESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method. If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed m of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such
A 100 S	physical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan. I this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:
	The temporary 1" or 2" well material will be removed. Tremied from bottom to land Neat Cement in lifts
2)	Will well head be cut-off below land surface after plugging? N/A
VI. I	PLUGGING AND SEALING MATERIALS:
	The plugging of a well that tape poor quality water may require the use of a specialty cement or specialty scalant. Attach a copy of the batch mix recipe the cement company and/or product description for specialty cement mixes or any scalant that deviates from the list of OSE approved scalants.
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based scalant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface: 87
4)	Type of Cement proposed: Type I/II Neat Cement
5)	Proposed cement grout mix: <8.0 gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be:batch-mixed and delivered to the site
	mixed on site

WD-08 Well Phagging Plan Version: July 31, 2019 Page 2 of 5

		ry weight relative to cement:	
	N/A		
	Additional notes and calculations:		
	Site ID:20 Location Name: Cotton Draw Unit 134H		
ш	ADDITIONAL INFORMATION: List additi	ional information below, or on separate sheet((a):
rfa	emporary well material will be removed. If no wa se and plugged using hydrated bentonite. If grou lurry of Portland TYPE I/II Neat cement in lifts. /	and water is encountered the boring will be plu	ed to (10) ten feet of land agged tremie from bottom
III.	SIGNATURE:		
	SIGNATURE: e Woodall (Devon Energy)	, say that I have carefully read the foregoing	Well Plugging Plan of
Dal pera	344 A. H. (D	reof; that I am familiar with the rules and regu comply with them, and that each and all of th	lations of the State
Dal era	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will	reof; that I am familiar with the rules and regu comply with them, and that each and all of the to the best of my knowledge and belief.	lations of the State
Dal era gin	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true	reof; that I am familiar with the rules and regu comply with them, and that each and all of the to the best of my knowledge and belief.	lations of the State to statements in the Well
Dal pera	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true	reof; that I am familiar with the rules and regu comply with them, and that each and all of the to the best of my knowledge and belief.	lations of the State te statements in the Well 04/25/2022
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Dera gin igg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true	reof; that I am familiar with the rules and regu comply with them, and that each and all of the to the best of my knowledge and belief. Signature of Applicant	lations of the State te statements in the Well 04/25/2022 Dute
Dai era gin igg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true CTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached of	seof; that I am familiar with the rules and regular comply with them, and that each and all of the to the best of my knowledge and belief. Signature of Applicant conditions. ided on the attached letter. OSE 0	Idations of the State te statements in the Well 04/25/2022 Dute 2-0-7-2
Dera gin igg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true CCTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached of Not approved for the reasons proven	Signature of Applicant Conditions. Idea of May of May of John R. D'Antonio Jr. P.E., New More of the proof	Idations of the State te statements in the Well 04/25/2022 Dute 2-0-7-7
Dera gin igg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true CCTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached of Not approved for the reasons proven	Signature of Applicant Signature of Applicant Conditions. Sided on the attached letter. Conditions. Cond	O4/25/2022 Dute 2-0-7-2 exico State Engineer
Dera gin igg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true CCTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached of Not approved for the reasons proven	Signature of Applicant Signature of Applicant Conditions. Sided on the attached letter. All of May Mike A - May John R. D'Antonio Jr. P.E., New Mo	O4/25/2022 Dute O2-0-2-2 exico State Engineer
Dai pera igin ugg	e Woodall (Devon Energy) tions and any attachments, which are a part her eer pertaining to the plugging of wells and will ing Plan of Operations and attachments are true CCTION OF THE STATE ENGINEER: Well Plugging Plan of Operations is: Approved subject to the attached of Not approved for the reasons proven	Signature of Applicant Signature of Applicant Conditions. Sided on the attached letter. Conditions. Cond	O4/25/2022 Dute O2-0-2-2 exico State Engineer

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 deepest	Interval 2	Interval 3 - most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgi)	N/A	N/A	N/A
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	55
Theoretical volume of grout required per interval (gallons)	N/A	N/A	87
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	NIA	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-Site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A OBE DII MRY 12/2022 PM1:3

WD-08 Well Plugging Plan Version: July 31, 2019 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based scalant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	15
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

USE DIT MRY 12 2022 PM1:34

WD-08 Well Plugging Plan Version July 31, 2019 Page 5 of 5



Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

May 17, 2022

Devon Energy 6488 7 Rivers Highway Artesia, NM 88210

RE: Well Plugging Plan of Operations for C-4632-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced project. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer.

- Plugging operations shall also be conducted in accordance with NMED, NMOCD, or other State or Federal agencies having oversight for the above described project.
- (2) In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor is required. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30, 19.27.4.31, 19.27.4.33 NMAC, and all specific conditions of approval. While conducting the well drilling activities, the Well Driller shall maintain a copy of the approved permit, conditions and Well Plugging Plan of Operations on-site and available for inspection upon request.
- (3) Well that encounters water Maximum 6 gallons water per 94 lb. sack Portland Cement
- (4) Dry hole Drill cuttings used to ten feet of land surface. Hydrated bentonite Fresh water to be added above water column at rate of 5 gallons per 50-lb sack/bucket.
- (5) Any deviation from this plan <u>must</u> obtain an approved variance from this office prior to implementation.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link https://www.ose.state.nm.us/Statewide/wdForms.php.

Within 30 days after the view is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh

Water Resources Manager I



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

Wello	wner: Dev	on Energy					Phone	No.: 575	5-748-1838	
Mailin	g address:	6488 7 Rivers H	wy			25		-		
City:	Artesia			State:		New	Mexico		Zip code	88210
п. w	ELL PLUC	GING INFORM	AATION:							
1)	Name of	well drilling com	pany that plug	ged well:	Jackie D.	Atkins (Atkins E	ngineering	Associates	Inc.)
2)	New Me	xico Well Driller	License No.:	1249				Expin	ation Date:	04/30/23
3)		gging activities w Idridge, Cameron		l by the folk	owing we	ll driller	(s)/rig su	pervisor(s	s):	
4)	Date wel	l plugging began:	6/14/2022		_ Date	well pla	ugging co	oncluded:	6/14/2022	
5)	GPS We	Il Location:	Latitude: Longitude:		_deg, _ _deg, _	9 45	min, min,	7.47 41.06	_ sec _ sec, WGS	84
6)		well confirmed a			55	ft be	low grou	ınd level (bgl),	
7)	Static wa	ter level measure	d at initiation	of plugging	n/a	ft bį	gl			
8)	Date wel	l plugging plan of	f operations w	as approved	by the S	ate Eng	ineer:	5/26/2022		
9)		plugging activitie es between the ap								
								QSE 0	00 JUN 16	2022743:12

Version: September 8, 2009

Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (fi bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-10° Hydrated Bentonite	Approx. 15 gallons	15 gallons	Augers	
-	10'-55' Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	
-					
-				ÇSE Oπ .	UN 16 2022 ≈ 3/12
8.	J		BY AND OBTAIN 7 4805 = gators 1.97 = gators		105

III. SIGNATURE:

I. Jackie D. Atkins	, say that I am familiar with the rules	of the Office of the State
	ils and that each and all of the statements in this Plugg	
	Jack Atkins	
		6/16/2022
	Signature of Wall Driller	Date

Version: September 8, 2009 Page 2 of 2



-	POD 1 (TW-1 WELL OWNER N	Marian.		X	N/A			C-4632 PHONE (OPTO	ONAL					
	Devon Energy							575-748-183	1 2 2 2					
	6488 7 Rivers		ADDRESS					Artesia		ST/ NN	1 88210	ZIP		
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	6/8/2022		6/8/2022		MPLETED WELL inporary Well	17.7		±55 ±55	DEPTH WATE		COUNTERED (FT) N/A			
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F	DEPTH (feet hgl) FROM TO		BORE HOLE DIAM	CASING MATERIAL AND/OR GRADE (include each casing string, and			CON	ASING NECTION	INSIDE DIAM.		ASING WALL THICKNESS	SLOT		
-		55	(inches) 46.5	notes	ections of scree	787		TYPE (ing diameter)	(inches)		(inches)	(inches)		
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-												0		
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F			8					- 9						
+	v		110					- march	Access to the Section of	amore al	Lacron Company	-2552-3-558		

	DEPTH (6:	et bgf)		COLOR A	ND TYPE OF MATER	IAL ENCO	UNTERED -		WAT	-69	ESTIMATED
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	0	4	4	Sand, Fine-grain	ed, poorly graded, unco	insolidated	7.5 YR 5/4, Bras	m.	Y	/N	
	4	23	19	Sand, Pine-grained, p	oorly graded, with Ca	liche, 7.5 Y	R 7/6, Reddish Y	ellow	Y	√ N	
	23	47	24	Sand, Pine-gr	nined, poorly graded, 7	5 YR 7/6, E	Reddish Yellow		Y	√N	
	47	55	8	Sand, Fine-g	rained, poorly graded,	5 YR 7/6, R	eddish Yellow		Υ	√ N	
				3-111-330133	***************************************				Y	N	
7									Y	N	
4. HYDROGROLOGIC LOG OF WELL									Y	N.	
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310									Y	N	
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TEST; RIG SUPERVISION	MISCELJ.AN	BOUS IN	be 20	emporary well mater dow ground surface(l otton Draw Unit 134	bgs), then hydrated h	boring bac sentanite c	hips ten feet bg	s to surfi	ace.		rpth to ten feet
S. TES	PRINT NAMI Shane Eldrid;			IVISOR(S) THAT PRO	OVIDED ONSITE SUI	ERVISION	OP WELL CON	STRUCT	TION O	гнек тн	AN LICENSEE
O. SIGNATURE	CORRECT R	ECORD O	F THE ABOVE I	TES THAT, TO THE P DESCRIBED HOLE AL DO DAYS AFTER COM	ND THAT HE OR SHE	E WILL FIL	LE THIS WELL	JEF, THI RECORD	WITH	GOING I THE ST/	S A TRUE AN
ó	324	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME		-			DATE	
E/O	OSE INTERN	At tien	8				yes an wa	11 950	non e	no ne	nalese par de dela del
_	ENO (/	162	2		POD NO.		TRN NO.		26		sion 01/28/2023
in	CATION 7	1	31E 11	122	L. Control of the Con	yan-	LL TAG ID NO.		-		PAGE 2 OF

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Mbr:

726269

Pile Mbr:

C 04632 Well File Nbr: C 04632 POD1

Jun. 24, 2022

DALE WOODALL DEVON ENERGY 6488 7 RIVERS HWY ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/24/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/08/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/24/2023.

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

Sincerely,

Azucena Ramirez (575) 622-6521

drywell.

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
 Sec
 Tws
 Rng
 X
 Y

 NA
 C 04632 POD1
 1 2 2 10 25S 31E 616802 3557964

Driller Name: JACKIE D ATKINS

Drill Start Date: 06/08/2022 **Drill Finish Date:** 06/08/2022 **Plug Date:** 06/14/2022

Log File Date: 06/16/2022 PCW Rcv Date: Source:

Pump Type:Pipe Discharge Size:Estimated Yield:Casing Size:Depth Well:55 feetDepth Water:

х

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

8/31/22 1:05 PM

POINT OF DIVERSION SUMMARY

1 of 1



New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 726269 Transaction Desc: C 04632 POD1 File Date: 05/12/2022

Primary Status:PMTPermitSecondary Status:APRApproved

Person Assigned: ******

Applicant: DEVON ENERGY **Contact:** DALE WOODALL

Events					
get	Date 05/12/2022	Type APP	Description Application Received	Comment *	Processed By
images get	05/12/2022	TEC	Technical Report	*PLG PLN OPS C-	*****
images	05/26/2022	FTN	Finalize non-published Trans.		*****
	06/16/2022	QAT	Quality Assurance Completed	SQ2	*****
g <u>et</u> images	06/16/2022	LOG	Well Log Received	*	*****
get images		LGI	Well Log Image	*PLG RECORD C-	*****
	06/23/2022	QAT	Quality Assurance Completed	IMAGE/WELL	*****
	06/23/2022	QAT	Quality Assurance Completed	IMAGE/PLUGGING	*****
	06/24/2022	DRY	Dry well log received		*****
	08/01/2022	QAT	Quality Assurance Completed	IMAGE/LOG	*****
	08/01/2022	QAT	Quality Assurance Completed	IMAGE/LGI	*****
	ght Informati		Discoving C	in Down of Ho	
WR Fil C 0463		Acre	es Diversion Consumpt 0 0	tive Purpose of Use EXP EXPLORATION)N
**Po	int of Diversio	n			

x Remarks

C 04632 POD1

"SOIL BORING TO DETEREMINE DEPTH UP TO 55 FEET. TEMPORARY PVC WELL MATERIAL WILL BE PLACED TO TOTAL DEPTH AND SECURED AT SURFACE. TEMPORARY WELL WILL BE IN PLACE FOR MINIMUM OF 72 HOURS. IF GROUND WATER IS ENCOUNTERED THE BORING WILL BE"

3557964

616802

Page 44 of 111

"PLUGGED IMMEDIATELY USING AUGERS AS TREMIE TO LAND A SLURRY OF PORTLAND TYPE I/II NEAT CEMENT LESS THAN 6.0 GALLONS OF WATER PER 94 LB. SACK. IF NOT WATER IS ENCOUNTERED THEN DRILL CUTTINGS WILL BE USED TO (10) TEN FEET OF LAND SURFACE AND"

"PLUGGED USING HYDRATED BENTONITE."

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before, unless a permit to use water from this well is acquired from the Office of the State Engineer.
- The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Action of the State Engineer

IT IS THE PERMITTEE_S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved

Firefox

Received by OCD: 11/16/2022 2:10:24 PM

Action Date: 05/24/2022 **Log Due Date:** 05/24/2023

State Engineer: Mike A. Hamman, P.

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

8/31/22 12:48 PM

TRANSACTION SUMMARY

Received by OCD: 11/16/2022 2:10:24 PM



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 04632

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP

EXPLORATION

Primary Status:

PMT PERMIT

Total Acres:

Subfile:

Header: -

Total Diversion:

Cause/Case:

Transaction Desc.

DEVON ENERGY Owner:

Contact: DALE WOODALL

Documents on File

Status

2

From/

Trn# Doc File/Act

To

Diversion Consumptive Acres

PMT APR C 04632 POD1

T

0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number C 04632 POD1

Well Tag Source

64Q16Q4Sec Tws Rng 1 2 2 10 25S 31E

616802 3557964 Other Location Desc

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

8/31/22 12:48 PM

WATER RIGHT SUMMARY

Greleased to Imaging: 2/13/2023 1:53:39 PM



6-2-19 Release Containment 36' x 6'outside 1-21-18 inside contanment overspray

NO C-141 Release 5/27/18

@No C-141

Proposed Borehole to confirm depth to water> 50 lease on 10/10/18

Unknown Release



ORelease To Imaging: 2/13/2023 P.93:39 PM

National Flood Hazard Layer FIRMette





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

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

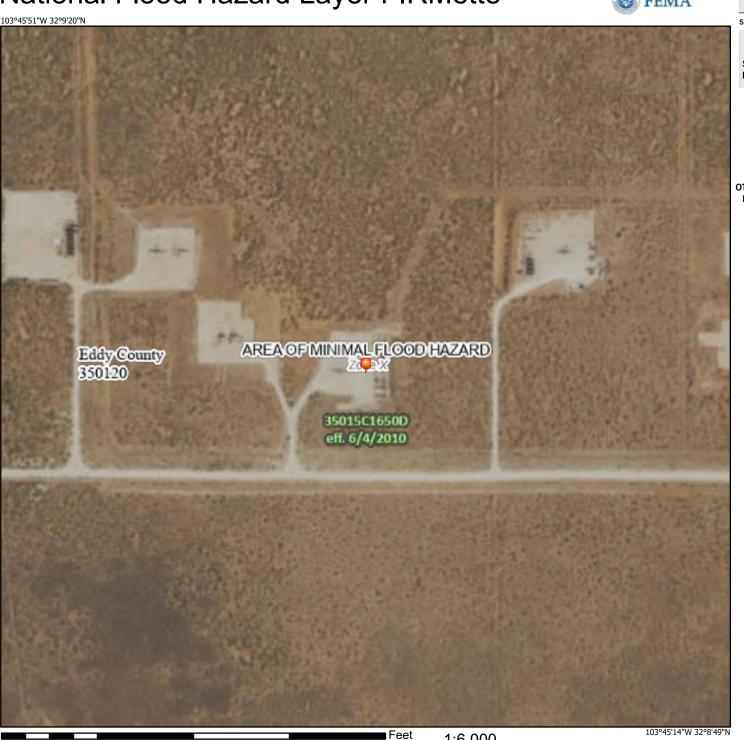
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/6/2022 at 7:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





February 14, 2020

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTON DRAW #10

Enclosed are the results of analyses for samples received by the laboratory on 02/12/20 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020 Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: LEA COUNTY, NM

Sample ID: AH - 1 SURFACE (H000417-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	GC-NC
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	133 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.9	50.0	02/13/2020	ND	222	111	200	4.06	
DRO >C10-C28*	12100	50.0	02/13/2020	ND	224	112	200	3.96	QM-07
EXT DRO >C28-C36	2360	50.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	124 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	401	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celecy & Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: AH - 1 1' (H000417-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	222	111	200	4.06	
DRO >C10-C28*	17.4	10.0	02/12/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

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Celecy & Keena



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: LEA COUNTY, NM

mg/kg

Sample ID: AH - 1 2' (H000417-03)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	222	111	200	4.06	
DRO >C10-C28*	<10.0	10.0	02/12/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	94.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	97.1	% 37.6-14	7						

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Celen & Keine

C-04



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

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: LEA COUNTY, NM

ma/ka

Sample ID: AH - 2 SURFACE (H000417-04)

RTFY 8021R

B1EX 8021B	mg/	кд	Analyze	а ву: м5					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	0.236	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	139 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.2	10.0	02/13/2020	ND	222	111	200	4.06	
	5120	10.0	02/13/2020	ND	224	112	200	3.96	
DRO >C10-C28*	3120	20.0							
DRO >C10-C28* EXT DRO >C28-C36	1290	10.0	02/13/2020	ND					

Surrogate: 1-Chlorooctadecane 264 % 37.6-147

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: AH - 2 1' (H000417-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	222	111	200	4.06	
DRO >C10-C28*	19.7	10.0	02/12/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.3	% 37.6-14	7						

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Celecy & Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: DEV - 20 - 008

Project Location: LEA COUNTY, NM

Sample ID: AH - 2 2' (H000417-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	222	111	200	4.06	
DRO >C10-C28*	<10.0	10.0	02/12/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	88.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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Celecy & Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact Project Number: Sample Received By: DEV - 20 - 008 Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: AH - 3 SURFACE (H000417-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	02/13/2020	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2020	ND	222	111	200	4.06	
DRO >C10-C28*	7330	10.0	02/13/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	1180	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	104 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	299 9	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: DEV - 20 - 008

Project Location: LEA COUNTY, NM

Sample ID: AH - 3 1' (H000417-08)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2020	ND	222	111	200	4.06	
DRO >C10-C28*	<10.0	10.0	02/12/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	78.7	% 41-142							
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: DEV - 20 - 008

Project Location: LEA COUNTY, NM

Sample ID: AH - 3 2' (H000417-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2020	ND	222	111	200	4.06	
DRO >C10-C28*	<10.0	10.0	02/13/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	89.4	% 41-142							
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

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S-04



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

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: LEA COUNTY, NM

mg/kg

Sample ID: AH - 4 SURFACE (H000417-10)

BTEX 8021B

DIEX COLLE	9	7 1.9	Analyzo	.u 571115						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9		
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3		
Ethylbenzene*	0.380	0.050	02/12/2020	ND	2.00	100	2.00	11.2		
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	GC-NC	
Total BTEX	0.380	0.300	02/12/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	161	% 73.3-12	9							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	02/13/2020	ND	432	108	400	0.00		
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	16.5	10.0	02/13/2020	ND	222	111	200	4.06		
DRO >C10-C28*	4020	10.0	02/13/2020	ND	224	112	200	3.96		
EXT DRO >C28-C36	811	10.0	02/13/2020	ND						
Surrogate: 1-Chlorooctane	98.0	% 41-142	?							
G 1 CH 1	211	0/ 27/14	17							

Surrogate: 1-Chlorooctadecane 211 % 37.6-147

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: DEV - 20 - 008

Project Location: LEA COUNTY, NM

Sample ID: AH - 4 1' (H000417-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/12/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/13/2020	ND	222	111	200	4.06	
DRO >C10-C28*	35.1	10.0	02/13/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	92.4 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 02/12/2020 Sampling Date: 02/11/2020

Reported: 02/14/2020 Sampling Type: Soil

Project Name: COTTON DRAW #10 Sampling Condition: Cool & Intact
Project Number: DEV - 20 - 008 Sample Received By: Tamara Oldaker

Project Location: LEA COUNTY, NM

Sample ID: AH - 4 2' (H000417-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2020	ND	1.92	96.2	2.00	10.9	
Toluene*	<0.050	0.050	02/13/2020	ND	1.96	98.0	2.00	11.3	
Ethylbenzene*	<0.050	0.050	02/13/2020	ND	2.00	100	2.00	11.2	
Total Xylenes*	<0.150	0.150	02/13/2020	ND	5.84	97.3	6.00	11.4	
Total BTEX	<0.300	0.300	02/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160 16.0		02/13/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.8	10.0	02/13/2020	ND	222	111	200	4.06	
DRO >C10-C28*	<10.0	10.0	02/13/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	<10.0 10.0		02/13/2020	ND					
Surrogate: 1-Chlorooctane	89.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.4 % 37.6-147		7						

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S-06



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

Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celecy D. Keine

Page 63 of 1111

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 64 of 111

Released to Imaging: 2/13/2023 1:53:39 PM Page 16 of 16

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Semple Condition
Cool Intact
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ON ON ON Sampler - UPS - Bus - Citheri (Initials) CHECKED BY: Delivered By: (Circle One)



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

April 07, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX (575) 393-4388

RE: Cotton Draw 10 Fed Com 2H Devon WO 20713717 OrderNo.: 2004067

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/2/2020 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,

Andy Freeman

Laboratory Manager

Andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2004067

Date Reported: 4/7/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-1 1ft

 Project:
 Cotton Draw 10 Fed Com 2H Devon WO
 Collection Date: 3/30/2020 9:50:00 AM

 Lab ID:
 2004067-001
 Matrix: SOIL
 Received Date: 4/2/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	580	60	mg/Kg	20	4/5/2020 9:42:44 PM	51572
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	:: DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/5/2020 6:31:49 PM	51530
Surr: BFB	99.0	70-130	%Rec	1	4/5/2020 6:31:49 PM	51530
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	:: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/5/2020 4:49:08 PM	51541
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/5/2020 4:49:08 PM	51541
Surr: DNOP	94.8	55.1-146	%Rec	1	4/5/2020 4:49:08 PM	51541
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: DJF
Benzene	ND	0.025	mg/Kg	1	4/5/2020 6:31:49 PM	51530
Toluene	ND	0.050	mg/Kg	1	4/5/2020 6:31:49 PM	51530
Ethylbenzene	ND	0.050	mg/Kg	1	4/5/2020 6:31:49 PM	51530
Xylenes, Total	ND	0.10	mg/Kg	1	4/5/2020 6:31:49 PM	51530
Surr: 1,2-Dichloroethane-d4	91.5	70-130	%Rec	1	4/5/2020 6:31:49 PM	51530
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	4/5/2020 6:31:49 PM	51530
Surr: Dibromofluoromethane	92.7	70-130	%Rec	1	4/5/2020 6:31:49 PM	51530
Surr: Toluene-d8	99.6	70-130	%Rec	1	4/5/2020 6:31:49 PM	51530

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

Qualifiers:

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

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

Page 1 of 6

Analytical ReportLab Order **2004067**

Date Reported: 4/7/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-2 1ft

 Project:
 Cotton Draw 10 Fed Com 2H Devon WO
 Collection Date: 3/30/2020 10:15:00 AM

 Lab ID:
 2004067-002
 Matrix:
 SOIL
 Received Date: 4/2/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: CJS
Chloride	590	60	mg/Kg	20	4/5/2020 9:55:08 PM	51572
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/5/2020 7:01:13 PM	51530
Surr: BFB	94.0	70-130	%Rec	1	4/5/2020 7:01:13 PM	51530
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/5/2020 5:13:37 PM	51541
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/5/2020 5:13:37 PM	51541
Surr: DNOP	93.6	55.1-146	%Rec	1	4/5/2020 5:13:37 PM	51541
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	4/5/2020 7:01:13 PM	51530
Toluene	ND	0.048	mg/Kg	1	4/5/2020 7:01:13 PM	51530
Ethylbenzene	ND	0.048	mg/Kg	1	4/5/2020 7:01:13 PM	51530
Xylenes, Total	ND	0.096	mg/Kg	1	4/5/2020 7:01:13 PM	51530
Surr: 1,2-Dichloroethane-d4	91.5	70-130	%Rec	1	4/5/2020 7:01:13 PM	51530
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	4/5/2020 7:01:13 PM	51530
Surr: Dibromofluoromethane	95.8	70-130	%Rec	1	4/5/2020 7:01:13 PM	51530
Surr: Toluene-d8	95.0	70-130	%Rec	1	4/5/2020 7:01:13 PM	51530

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004067**

07-Apr-20

Client: Safety & Environmental Solutions

Project: Cotton Draw 10 Fed Com 2H Devon WO 20713

Sample ID: MB-51572 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51572 RunNo: 67876

Prep Date: 4/5/2020 Analysis Date: 4/5/2020 SeqNo: 2344946 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51572 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51572 RunNo: 67876

Prep Date: 4/5/2020 Analysis Date: 4/5/2020 SeqNo: 2344947 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.7 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

OC SUMMARY REPORT

Sample ID: LCS-51541

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004067**

07-Apr-20

Client: Safety & Environmental Solutions

Project: Cotton Draw 10 Fed Com 2H Devon WO 20713

SampType: LCS

Sample ID: MB-51541 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 51541 RunNo: 67859 Prep Date: 4/3/2020 Analysis Date: 4/5/2020 SeqNo: 2344068 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result PQL Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.0 10.00 89.6 55.1 146

Client ID: LCSS Batch ID: 51541 RunNo: 67859 Prep Date: 4/3/2020 Analysis Date: 4/5/2020 SeqNo: 2344069 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 90.3 Diesel Range Organics (DRO) 45 10 50.00 70 130 Surr: DNOP 4.3 5.000 85.8 55.1 146

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: MB-51554 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 51554 RunNo: 67859 Prep Date: 4/4/2020 Analysis Date: 4/6/2020 SeqNo: 2345130 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 10 10.00 100 55.1 146

Sample ID: LCS-51554 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 51554 RunNo: 67859 Prep Date: 4/4/2020 Analysis Date: 4/6/2020 SeqNo: 2345131 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Surr: DNOP 4.4 5.000 87.3 55.1 146

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004067**

07-Apr-20

Client: Safety & Environmental Solutions

Project: Cotton Draw 10 Fed Com 2H Devon WO 20713

Sample ID: mb-51530	SampType: MBLK TestCode: EPA Meth										
Client ID: PBS	Batc	h ID: 51	530	RunNo: 67853							
Prep Date: 4/2/2020	Analysis Date: 4/5/2020		S	SeqNo: 2	343895	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: 1,2-Dichloroethane-d4	0.43		0.5000		85.8	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130				
	0.45		0.5000		89.1	70	130				
Surr: Dibromofluoromethane	0.45		0.5000								
Surr: Dibromofluoromethane Surr: Toluene-d8	0.45		0.5000		97.3	70	130				
Surr: Toluene-d8	0.49	Гуре: LC	0.5000	Tes	97.3		130 8260B: Vola t	tiles Short	List		
Surr: Toluene-d8 Sample ID: Ics-51530	0.49 Samp	Гуре: LC h ID: 51 !	0.5000 S4		97.3	PA Method		tiles Short	List		
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC	0.49 Samp	h ID: 51	0.5000 S4 530	F	97.3 tCode: E l	PA Method 7853			List		
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC Prep Date: 4/2/2020	0.49 Sampi	h ID: 51	0.5000 S4 530 5/2020	F	97.3 tCode: El	PA Method 7853	8260B: Volat		List RPDLimit	Qual	
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC Prep Date: 4/2/2020 Analyte	0.49 Samp Batc Analysis [h ID: 51 ! Date: 4 /	0.5000 S4 530 5/2020	F	97.3 tCode: El RunNo: 6 SeqNo: 2	PA Method 7853 343896	8260B: Volat	(g		Qual	
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC Prep Date: 4/2/2020 Analyte Benzene	0.49 Samp Batc Analysis [Result	h ID: 51! Date: 4/ PQL	0.5000 S4 530 5/2020 SPK value	F S SPK Ref Val	97.3 tCode: El RunNo: 6 SeqNo: 2 %REC	PA Method 7853 343896 LowLimit	8260B: Volate Units: mg/K HighLimit	(g		Qual	
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC Prep Date: 4/2/2020 Analyte Benzene Toluene	O.49 Samp Batc Analysis [Result 0.86	PQL 0.025	0.5000 S4 530 5/2020 SPK value 1.000	SPK Ref Val	97.3 tCode: El RunNo: 6 SeqNo: 2 %REC 86.5	PA Method 7853 343896 LowLimit 80	8260B: Volate Units: mg/K HighLimit 120	(g		Qual	
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC Prep Date: 4/2/2020 Analyte Benzene Toluene Ethylbenzene	O.49 Samp Batc Analysis E Result 0.86 1.1	PQL 0.025 0.050	0.5000 S4 530 5/2020 SPK value 1.000 1.000	SPK Ref Val 0 0	97.3 tCode: El RunNo: 6 SeqNo: 2 %REC 86.5 105	PA Method 7853 343896 LowLimit 80 80	8260B: Volate Units: mg/K HighLimit 120 120	(g		Qual	
Surr: Toluene-d8 Sample ID: Ics-51530 Client ID: BatchQC	O.49 Samp Batc Analysis E Result 0.86 1.1 1.1	PQL 0.025 0.050	0.5000 S4 530 5/2020 SPK value 1.000 1.000 1.000	SPK Ref Val 0 0 0	97.3 tCode: El RunNo: 6 SeqNo: 2 %REC 86.5 105 106	PA Method 7853 343896 LowLimit 80 80 80	8260B: Volate Units: mg/K HighLimit 120 120 120	(g		Qual	

Sample ID: mb-51487	mple ID: mb-51487 SampType: MBLK					TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch	ID: 51	487	F									
Prep Date: 4/1/2020	Analysis Date: 4/5/2020			S	SeqNo: 2	345162	Units: %Red						
Analyte	Result PQL SPK value			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 1,2-Dichloroethane-d4	0.45 0.5000			90.5 70			130						
Surr: 4-Bromofluorobenzene	0.47 0.5000			94.0 70			130						
Surr: Dibromofluoromethane	0.47 0.5000			94.2 70			130						
Surr: Toluene-d8	0.49 0.5000			98.8 70			130						

Sample ID: Ics-51487 SampType: LCS4				TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC Batch ID: 51487			R									
Prep Date: 4/1/2020	Analysis Date: 4/5/2020			SeqNo: 2345164			Units: %Rec					
Analyte	Result PQL SPK value		SPK Ref Val	%REC LowLimit		HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Bromofluorobenzene	0.48 0.5000		97.0		70	130						
Surr: Toluene-d8	0.50 0.5000				100	70	130					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2004067 07-Apr-20**

Client: Safety & Environmental Solutions

Project: Cotton Draw 10 Fed Com 2H Devon WO 20713

Sample ID: mb-51530 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: **PBS** Batch ID: **51530** RunNo: **67853**

Prep Date: 4/2/2020 Analysis Date: 4/5/2020 SeqNo: 2343932 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 490 500.0 97.5 70 130

Sample ID: Ics-51530 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51530 RunNo: 67853

Prep Date: 4/2/2020 Analysis Date: 4/5/2020 SeqNo: 2343933 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 5.0 25.00 O 93.5 130

Surr: BFB 500 500.0 101 70 130

Sample ID: mb-51487 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 51487 RunNo: 67881

Prep Date: 4/1/2020 Analysis Date: 4/5/2020 SeqNo: 2345213 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 490 500.0 98.6 70 130

Sample ID: Ics-51487 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51487 RunNo: 67881

Prep Date: 4/1/2020 Analysis Date: 4/5/2020 SegNo: 2345214 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 500 500.0 99.3 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 6



Hall Euriconmental Analysis Euberatory 4901 Hachins Nr. Albaqueryae, NM 87169

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Safety En	v Solutions	Work	Order Num	ber 200	4057	ś		Reptins: 1	
Received By:	Isaiah O	rtiz	4/2/202	0 8:30:00 A	M		\boldsymbol{x}	~0	4	
Completed By	. John Cal	Idwell	4/2/202	0 9:48:00 A	M		06	11	rest	
Reviewed By:	I	200	4/2	10			<i>y</i>		· Loy	
Chain of Cu	stody									
1. Is Chain of	Custody suffic	ciently comple	le?		Yes	¥	No	H	Not Present	
2 How was th	e sample deli	vered?			Cou	ner				
Log In										
Was an atte	empt made to	cool the samp	les?		Yes	V	No		NA L	
4. Were all san	mples receive	d at a tempera	ture of >0° C	ta 6.0°C	Yes	V	No		NA L	
5. Sample(s) i	n proper conta	ainer(a)?			Yes	¥	No	ŢΝ		
5, Sufficient se	imple volume	for indicated to	est(s)?		Yes	Z	No			
7. Are samples				ed?	Yes		No			
8. Was preserv					Yes		No	V	NA 🗔	
9. Received at	least 1 vial wi	th headspace	<1/4" for AQ \	/OA?	Yes	П	No		NA 🗹	
0. Were any sa	aniple contain	ers received b	roken?		Yes		No	V	# of preserved	5047
								_	bottles checked	
 Does paperv Note discret 		office falbels? name of custody	ì		Yes	~	No		for pH. (<2 or ≥12)	unless noted)
2. Are matrices					Yes	V	No		Adjusted2	
3. Is it clear wh					Yes	V	No	ã	/	
4. Were all hold	ding times abl	S. W. W. W. W. S.			Yes	V	No	Ħ	Checked by: DAD	4/2/20
pecial Hand		and and the second								
5. Was client r	THE RESERVE AND ADDRESS OF A	0	with this order?		Yes	\Box	No	LI	NA 🗹	
Perso	n Notified:			Date		_		-		
By Wi				Via:	☐ eM	ii ii	Phone	Fax	∏ In Person	
Regar					1					
30,4750	Instructions.					_				
6. Additional r	Car to secure region	•								
7. Cooler Info	amation									
Copler N	The second second	Condition	Seal Intact	Seal No	Scal D	ata I	Signed B	w	T.	
1	1.4	Gond		320,110			o grico t			
2	1.2	Good								

Received by OCD: 11/16/2022 2:1	0:24 PM		Page 73 of
HALL ENVIR ANALYSIS LA WWW.hallenvironmenta 4901 Hawkins NE - Albuquerque Tel. 505-345-3975 Fax 505-3 Analysis Requ	TPH:8015D(GRO / DRO / MRO 8081 Pestloides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F. Br, NO ₃ , NO ₂ , PO ₄ , S 8260 (VOA) 8250 (VOA) Total Coliform (Present/Absert		Remarks: E. Mail date, To BOB Bull Poll Poll Poll Poll Poll Poll Poll P
Turn-Around Time: S doughturns If Standard II Rush Project Name: Doubon Corton Draws to Fellow Zh Noject Manager: 1008	Sampler: Sam	100- Jean 1	Received pty: Via: Date Time Re Received by: Via: Vibra Time Re The Time Re Th
Chain-of-Custody Record Client: Select + Colubrative of Select + Colubrative	CAVOC Package: Cli Standard Cli Level 4 (Full Validation) Accreditation: Cli Az Compliance Cli NELAC Cli Other Cli EDD (Type) Cli EDD (Type) Date Time Matrix Sample Name	830 046 8 5P 1 14 330 1015 8 5P 2 14	Date; Time: Refriquence by: Date: Time: Refriquence by: (1/12) 1940 3/11/11



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

August 20, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Devon Cotton Draw 10 Fed Com 2H 2RP-5378 OrderNo.: 2008699

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/13/2020 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,

Andy Freeman

Laboratory Manager

and for

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-3 2.5ft

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 9:35:00 AM

 Lab ID:
 2008699-001
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	170	59	mg/Kg	20	8/18/2020 3:02:18 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	8/17/2020 2:50:32 PM	54431
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/17/2020 2:50:32 PM	54431
Surr: DNOP	103	30.4-154	%Rec	1	8/17/2020 2:50:32 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 9:15:30 PM	54430
Surr: BFB	99.4	75.3-105	%Rec	1	8/15/2020 9:15:30 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	8/15/2020 9:15:30 PM	54430
Toluene	ND	0.049	mg/Kg	1	8/15/2020 9:15:30 PM	54430
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2020 9:15:30 PM	54430
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2020 9:15:30 PM	54430
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/15/2020 9:15:30 PM	54430

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

Qualifiers:

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

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

Page 1 of 12

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-4 3ft

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 10:10:00 AM

 Lab ID:
 2008699-002
 Matrix:
 SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	180	60	mg/Kg	20	8/18/2020 3:14:42 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	8/17/2020 3:14:28 PM	54431
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/17/2020 3:14:28 PM	54431
Surr: DNOP	108	30.4-154	%Rec	1	8/17/2020 3:14:28 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2020 9:38:53 PM	54430
Surr: BFB	98.8	75.3-105	%Rec	1	8/15/2020 9:38:53 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 9:38:53 PM	54430
Toluene	ND	0.048	mg/Kg	1	8/15/2020 9:38:53 PM	54430
Ethylbenzene	ND	0.048	mg/Kg	1	8/15/2020 9:38:53 PM	54430
Xylenes, Total	ND	0.097	mg/Kg	1	8/15/2020 9:38:53 PM	54430
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/15/2020 9:38:53 PM	54430

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-5 West

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 10:30:00 AM

 Lab ID:
 2008699-003
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	60	mg/Kg	20	8/18/2020 3:51:55 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	15	9.5	mg/Kg	1	8/17/2020 3:38:27 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 3:38:27 PM	54431
Surr: DNOP	93.5	30.4-154	%Rec	1	8/17/2020 3:38:27 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 10:02:15 PM	54430
Surr: BFB	95.7	75.3-105	%Rec	1	8/15/2020 10:02:15 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/15/2020 10:02:15 PM	54430
Toluene	ND	0.049	mg/Kg	1	8/15/2020 10:02:15 PM	54430
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2020 10:02:15 PM	54430
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2020 10:02:15 PM	54430
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/15/2020 10:02:15 PM	54430

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-6 Southwest

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 10:45:00 AM

 Lab ID:
 2008699-004
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/18/2020 4:04:20 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/17/2020 4:02:24 PM	54431
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2020 4:02:24 PM	54431
Surr: DNOP	99.2	30.4-154	%Rec	1	8/17/2020 4:02:24 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 10:25:36 PM	54430
Surr: BFB	96.6	75.3-105	%Rec	1	8/15/2020 10:25:36 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 10:25:36 PM	54430
Toluene	ND	0.049	mg/Kg	1	8/15/2020 10:25:36 PM	54430
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2020 10:25:36 PM	54430
Xylenes, Total	ND	0.098	mg/Kg	1	8/15/2020 10:25:36 PM	54430
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/15/2020 10:25:36 PM	54430

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-7 South

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 11:00:00 AM

 Lab ID:
 2008699-005
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	110	60	mg/Kg	20	8/18/2020 4:16:45 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/17/2020 4:26:17 PM	54431
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/17/2020 4:26:17 PM	54431
Surr: DNOP	99.2	30.4-154	%Rec	1	8/17/2020 4:26:17 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/15/2020 10:48:59 PM	54430
Surr: BFB	95.9	75.3-105	%Rec	1	8/15/2020 10:48:59 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 10:48:59 PM	54430
Toluene	ND	0.047	mg/Kg	1	8/15/2020 10:48:59 PM	54430
Ethylbenzene	ND	0.047	mg/Kg	1	8/15/2020 10:48:59 PM	54430
Xylenes, Total	ND	0.095	mg/Kg	1	8/15/2020 10:48:59 PM	54430
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	8/15/2020 10:48:59 PM	54430

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-8 East

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 11:25:00 AM

 Lab ID:
 2008699-006
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	8/18/2020 4:29:10 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/17/2020 4:50:08 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 4:50:08 PM	54431
Surr: DNOP	99.5	30.4-154	%Rec	1	8/17/2020 4:50:08 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2020 11:12:20 PM	54430
Surr: BFB	95.7	75.3-105	%Rec	1	8/15/2020 11:12:20 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/15/2020 11:12:20 PM	54430
Toluene	ND	0.050	mg/Kg	1	8/15/2020 11:12:20 PM	54430
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2020 11:12:20 PM	54430
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2020 11:12:20 PM	54430
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/15/2020 11:12:20 PM	54430

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-9 Northeast

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 11:55:00 AM

 Lab ID:
 2008699-007
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	180	60	mg/Kg	20	8/18/2020 4:41:34 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	16	9.7	mg/Kg	1	8/17/2020 5:14:05 PM	54431
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/17/2020 5:14:05 PM	54431
Surr: DNOP	98.7	30.4-154	%Rec	1	8/17/2020 5:14:05 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 11:35:48 PM	54430
Surr: BFB	97.9	75.3-105	%Rec	1	8/15/2020 11:35:48 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	8/15/2020 11:35:48 PM	54430
Toluene	ND	0.049	mg/Kg	1	8/15/2020 11:35:48 PM	54430
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2020 11:35:48 PM	54430
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2020 11:35:48 PM	54430
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/15/2020 11:35:48 PM	54430

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-10 Northwest

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 12:15:00 PM

 Lab ID:
 2008699-008
 Matrix:
 SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	79	60	mg/Kg	20	8/18/2020 4:53:59 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/18/2020 7:08:53 PM	54431
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2020 7:08:53 PM	54431
Surr: DNOP	105	30.4-154	%Rec	1	8/18/2020 7:08:53 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2020 11:59:10 PM	54430
Surr: BFB	101	75.3-105	%Rec	1	8/15/2020 11:59:10 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 11:59:10 PM	54430
Toluene	ND	0.048	mg/Kg	1	8/15/2020 11:59:10 PM	54430
Ethylbenzene	ND	0.048	mg/Kg	1	8/15/2020 11:59:10 PM	54430
Xylenes, Total	ND	0.095	mg/Kg	1	8/15/2020 11:59:10 PM	54430
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	8/15/2020 11:59:10 PM	54430

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008699**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-5378

Sample ID: MB-54499 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 54499 RunNo: 71154

Prep Date: 8/18/2020 Analysis Date: 8/18/2020 SeqNo: 2481784 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54499 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54499 RunNo: 71154

Prep Date: 8/18/2020 Analysis Date: 8/18/2020 SeqNo: 2481785 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008699 20-Aug-20**

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-5378

Sample ID: MB-54431 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 54431 RunNo: 71115

Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2478838 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 105 30.4 154

Sample ID: LCS-54431 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 54431 RunNo: 71115

Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2479491 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 50
 10
 50.00
 0
 101
 70
 130

 Surr: DNOP
 4.8
 5.000
 96.2
 30.4
 154

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008699 20-Aug-20**

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-5378

Sample ID: mb-54430 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54430 RunNo: 71111

Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478539 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 75.3 105

Sample ID: Ics-54430 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54430 RunNo: 71111

Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478540 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.5 Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 106 Surr: BFB 1100 S 1000 111 75.3 105

Sample ID: mb-54437 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54437 RunNo: 71136

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SeqNo: 2480048 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 104 75.3 105

Sample ID: Ics-54437 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54437 RunNo: 71136

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SegNo: 2480049 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1100 1000 75.3 Surr: BFB 111 105 S

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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008699**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-5378

Sample ID: mb-54430	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	021B: Volatiles				
Client ID: PBS	Batcl	n ID: 54	430	F	RunNo: 7	1111						
Prep Date: 8/14/2020	Analysis D	Date: 8/	15/2020	S	478583	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		104	80	120					
Sample ID: LCS-54430	SamnT	vpe: LC	TestCode: EPA Method 8021B: Volatiles									

Sample ID. LC3-34430	Samp	iype. LC	.3	163	restouce. EFA Method ouz ID. Volatiles					
Client ID: LCSS	Batc	h ID: 54	430	F	RunNo: 71111					
Prep Date: 8/14/2020	Analysis [Date: 8/	15/2020	9	SeqNo: 2478584 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: mb-54437	SampT	уре: М	BLK	Tes	tCode: EI	EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	ID: 54	437	F	RunNo: 7	1136						
Prep Date: 8/15/2020	Analysis D	ate: 8/	17/2020	S	SeqNo: 2	480091	Units: %Red	;				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120					

Sample ID: LCS-54437	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 54	437	F	RunNo: 7	1136				
Prep Date: 8/15/2020	Analysis D	ate: 8/	/17/2020	5	SeqNo: 2480092			;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		1 000		106	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Solutions	nvironmental Work	Order Number: 200	10099		RcptNo:	1
Received By: Emily Mod	cho 8/13/202	20 8:00:00 AM				
Completed By: Michelle 0	Sarcia 8/13/202	0 9:10:55 AM	4	Minu G	nue)	
Reviewed By:	8/13	1/23		,		
Chain of Custody					·	
1. Is Chain of Custody comp	lete?	Yes	· 🗸	No 🗌	Not Present	
2. How was the sample delive	ered?	Cou	<u>ırier</u>			
Log In	so al the garantee 2	Van	· 🗸	No 🗌	na 🗆	
3. Was an attempt made to c	ooi the samples?	res		NO L	INA L	
4. Were all samples received	at a temperature of >0° C to	o 6.0°C Yes	V	No 🗌	NA □	
5. Sample(s) in proper contai	iner(s)?	Yes	✓	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?	Yes	✓	No 🗌		
7. Are samples (except VOA	and ONG) properly preserve	d? Yes	✓	No 🗌		
8. Was preservative added to	bottles?	Yes		No 🗹	NA 🗆	
9. Received at least 1 vial with	h headspace <1/4" for AQ V	DA? Yes		No 🗌	NA 🗹	
10. Were any sample containe	ers received broken?	Yes		No ⊻ [# of preserved	
11. Does paperwork match bot (Note discrepancies on cha		Yes	✓	No 🗆	bottles checked for pH:	>12 unless noted)
2. Are matrices correctly ident		Yes	✓	No 🗆	Adjusted?	
3. Is it clear what analyses we	ere requested?	Yes	~	No 🗆		and Shale
14. Were all holding times able (If no, notify customer for a		Yes	✓	No 🗆	Checked by:	mc 8/13/e
Special Handling (if app	olicable)					
15. Was client notified of all di	screpancies with this order?	Yes	. 🗆	No 🗌	NA 🗹	
Person Notified:		Date:				
By Whom:		Via: ☐ eM	lail 🗌 Phon	e 🗍 Fax	☐ In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						J
17. <u>Cooler Information</u>						
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

August 20, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Devon Cotton Draw 10 Fed Com 2H 2RP-4804 OrderNo.: 2008698

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/13/2020 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,

andy Com

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-1 3ft

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 12:50:00 PM

 Lab ID:
 2008698-001
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	8/18/2020 12:45:47 PM	54499
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2020 1:08:46 PM	54415
Surr: BFB	99.5	70-130	%Rec	1	8/16/2020 1:08:46 PM	54415
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/17/2020 10:51:02 AM	54431
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/17/2020 10:51:02 AM	54431
Surr: DNOP	96.6	30.4-154	%Rec	1	8/17/2020 10:51:02 AM	54431
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst:	JMR
Benzene	ND	0.024	mg/Kg	1	8/16/2020 1:08:46 PM	54415
Toluene	ND	0.049	mg/Kg	1	8/16/2020 1:08:46 PM	54415
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2020 1:08:46 PM	54415
Xylenes, Total	ND	0.097	mg/Kg	1	8/16/2020 1:08:46 PM	54415
Surr: 1,2-Dichloroethane-d4	93.4	70-130	%Rec	1	8/16/2020 1:08:46 PM	54415
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/16/2020 1:08:46 PM	54415
Surr: Dibromofluoromethane	104	70-130	%Rec	1	8/16/2020 1:08:46 PM	54415
Surr: Toluene-d8	89.3	70-130	%Rec	1	8/16/2020 1:08:46 PM	54415

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

Qualifiers:

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

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

Page 1 of 14

Client Sample ID: AH-2 2.5ft

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 1:20:00 PM

 Lab ID:
 2008698-002
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	61	mg/Kg	20	8/18/2020 1:47:50 PM	54499
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2020 8:17:38 PM	54415
Surr: BFB	106	70-130	%Rec	1	8/16/2020 8:17:38 PM	54415
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/17/2020 12:02:44 PM	54431
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/17/2020 12:02:44 PM	54431
Surr: DNOP	96.0	30.4-154	%Rec	1	8/17/2020 12:02:44 PM	54431
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: JMR
Benzene	ND	0.023	mg/Kg	1	8/16/2020 8:17:38 PM	54415
Toluene	ND	0.047	mg/Kg	1	8/16/2020 8:17:38 PM	54415
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2020 8:17:38 PM	54415
Xylenes, Total	ND	0.094	mg/Kg	1	8/16/2020 8:17:38 PM	54415
Surr: 1,2-Dichloroethane-d4	94.3	70-130	%Rec	1	8/16/2020 8:17:38 PM	54415
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/16/2020 8:17:38 PM	54415
Surr: Dibromofluoromethane	107	70-130	%Rec	1	8/16/2020 8:17:38 PM	54415
Surr: Toluene-d8	91.3	70-130	%Rec	1	8/16/2020 8:17:38 PM	54415

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP

Lab ID: 2008698-003

Client Sample ID: H-5 North

Collection Date: 8/11/2020 1:40:00 PM Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	60	mg/Kg	20	8/18/2020 2:00:15 PM	54499
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/16/2020 8:46:08 PM	54415
Surr: BFB	105	70-130	%Rec	1	8/16/2020 8:46:08 PM	54415
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	34	9.7	mg/Kg	1	8/17/2020 12:26:40 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 12:26:40 PM	54431
Surr: DNOP	104	30.4-154	%Rec	1	8/17/2020 12:26:40 PM	54431
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	8/16/2020 8:46:08 PM	54415
Toluene	ND	0.048	mg/Kg	1	8/16/2020 8:46:08 PM	54415
Ethylbenzene	ND	0.048	mg/Kg	1	8/16/2020 8:46:08 PM	54415
Xylenes, Total	ND	0.095	mg/Kg	1	8/16/2020 8:46:08 PM	54415
Surr: 1,2-Dichloroethane-d4	94.1	70-130	%Rec	1	8/16/2020 8:46:08 PM	54415
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/16/2020 8:46:08 PM	54415
Surr: Dibromofluoromethane	105	70-130	%Rec	1	8/16/2020 8:46:08 PM	54415
Surr: Toluene-d8	93.0	70-130	%Rec	1	8/16/2020 8:46:08 PM	54415

Matrix: SOIL

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-6 West

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 1:50:00 PM

 Lab ID:
 2008698-004
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	60	mg/Kg	20	8/18/2020 2:12:40 PM	54499
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2020 9:14:37 PM	54415
Surr: BFB	104	70-130	%Rec	1	8/16/2020 9:14:37 PM	54415
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	18	9.8	mg/Kg	1	8/17/2020 12:50:39 PM	54431
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/17/2020 12:50:39 PM	54431
Surr: DNOP	103	30.4-154	%Rec	1	8/17/2020 12:50:39 PM	54431
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	JMR
Benzene	ND	0.023	mg/Kg	1	8/16/2020 9:14:37 PM	54415
Toluene	ND	0.047	mg/Kg	1	8/16/2020 9:14:37 PM	54415
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2020 9:14:37 PM	54415
Xylenes, Total	ND	0.094	mg/Kg	1	8/16/2020 9:14:37 PM	54415
Surr: 1,2-Dichloroethane-d4	92.9	70-130	%Rec	1	8/16/2020 9:14:37 PM	54415
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/16/2020 9:14:37 PM	54415
Surr: Dibromofluoromethane	108	70-130	%Rec	1	8/16/2020 9:14:37 PM	54415
Surr: Toluene-d8	91.3	70-130	%Rec	1	8/16/2020 9:14:37 PM	54415

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-7 Southwest

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 2:10:00 PM

 Lab ID:
 2008698-005
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	60	mg/Kg	20	8/18/2020 2:25:05 PM	54499
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2020 9:43:03 PM	54415
Surr: BFB	110	70-130	%Rec	1	8/16/2020 9:43:03 PM	54415
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	21	9.6	mg/Kg	1	8/17/2020 1:14:39 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 1:14:39 PM	54431
Surr: DNOP	108	30.4-154	%Rec	1	8/17/2020 1:14:39 PM	54431
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	8/16/2020 9:43:03 PM	54415
Toluene	ND	0.047	mg/Kg	1	8/16/2020 9:43:03 PM	54415
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2020 9:43:03 PM	54415
Xylenes, Total	ND	0.094	mg/Kg	1	8/16/2020 9:43:03 PM	54415
Surr: 1,2-Dichloroethane-d4	91.9	70-130	%Rec	1	8/16/2020 9:43:03 PM	54415
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/16/2020 9:43:03 PM	54415
Surr: Dibromofluoromethane	104	70-130	%Rec	1	8/16/2020 9:43:03 PM	54415
Surr: Toluene-d8	90.6	70-130	%Rec	1	8/16/2020 9:43:03 PM	54415

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

Qualifiers:

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

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

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Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-8 South

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 2:20:00 PM

 Lab ID:
 2008698-006
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	77	60	mg/Kg	20	8/18/2020 2:37:29 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/17/2020 8:02:35 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 8:02:35 PM	54431
Surr: DNOP	110	30.4-154	%Rec	1	8/17/2020 8:02:35 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2020 6:54:27 PM	54430
Surr: BFB	101	75.3-105	%Rec	1	8/15/2020 6:54:27 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 6:54:27 PM	54430
Toluene	ND	0.048	mg/Kg	1	8/15/2020 6:54:27 PM	54430
Ethylbenzene	ND	0.048	mg/Kg	1	8/15/2020 6:54:27 PM	54430
Xylenes, Total	ND	0.096	mg/Kg	1	8/15/2020 6:54:27 PM	54430
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/15/2020 6:54:27 PM	54430

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

Qualifiers:

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

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

Page 6 of 14

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: H-9 East

 Project:
 Devon Cotton Draw 10 Fed Com 2H 2RP
 Collection Date: 8/11/2020 2:30:00 PM

 Lab ID:
 2008698-007
 Matrix: SOIL
 Received Date: 8/13/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	89	60	mg/Kg	20	8/18/2020 2:49:54 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/17/2020 8:26:29 PM	54431
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 8:26:29 PM	54431
Surr: DNOP	106	30.4-154	%Rec	1	8/17/2020 8:26:29 PM	54431
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Surr: BFB	102	75.3-105	%Rec	1	8/15/2020 8:05:08 PM	54430
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Toluene	ND	0.049	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Xylenes, Total	ND	0.097	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	8/15/2020 8:05:08 PM	54430

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

Qualifiers:

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

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

Page 7 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

Sample ID: MB-54499 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **54499** RunNo: **71154**

Prep Date: 8/18/2020 Analysis Date: 8/18/2020 SeqNo: 2481784 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-54499 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 54499 RunNo: 71154

Prep Date: 8/18/2020 Analysis Date: 8/18/2020 SeqNo: 2481785 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.8 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

4.8

4.5

Sample ID: MB-54431 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54431 RunNo: 71115 Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2478838 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result PQL Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 105 30.4 154

Sample ID: LCS-54431 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 54431 RunNo: 71115 Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2479491 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 10 70 130 50.00 101

96.2

94.0

30.4

30.4

154

154

0

0

5.000

4.771

Sample ID: 2008698-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 71115 Client ID: AH-1 3ft Batch ID: 54431 Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2479502 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 51 9.8 48.78 0 104 47.4 136 Surr: DNOP 4.7 4.878 95.7 30.4 154

Sample ID: 2008698-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: AH-1 3ft Batch ID: 54431 RunNo: 71115 Prep Date: 8/14/2020 Analysis Date: 8/17/2020 SeqNo: 2479503 Units: mg/Kg %RPD Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 48 9.5 47.71 0 101 47.4 136 5.11 43.4

Qualifiers:

Surr: DNOP

Surr: DNOP

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

Sample ID: mb-54430 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 54430 RunNo: 71111

Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478539 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 75.3 105

Sample ID: Ics-54430 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54430 RunNo: 71111

Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478540 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 89.8 72.5 106 Surr BFB 1100 S 1000 111 75.3 105

Sample ID: 2008698-007ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range
Client ID: H-9 East Batch ID: 54430 RunNo: 71111

Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478543 Units: mg/Kg

Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte POL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 4.6 23.06 0 98.2 61.3 114 Surr: BFB 1000 922.5 75.3 S 112 105

Sample ID: 2008698-007amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: H-9 East Batch ID: 54430 RunNo: 71111 Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478544 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual 24 4.9 98.3 61.3 5.62 20 24 37 114

 Gasoline Range Organics (GRO)
 24
 4.9
 24.37
 0
 98.3
 61.3
 114
 5.62
 20

 Surr: BFB
 1100
 974.7
 109
 75.3
 105
 0
 0
 S

Sample ID: mb-54437

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **54437** RunNo: **71136**

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SeqNo: 2480048 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1000 1000 104 75.3 105

Sample ID: Ics-54437 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 54437 RunNo: 71136

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SeqNo: 2480049 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1100 1000 111 75.3 105 S

Qualifiers:

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

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

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Surr: 4-Bromofluorobenzene

Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

1.0

1.0

Sample ID: mb-54430 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 54430 RunNo: 71111 Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478583 Units: mg/Kg SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

104

80

120

120

80

Sample ID: LCS-54430 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 54430 RunNo: 71111 SeqNo: 2478584 Analysis Date: 8/15/2020 Prep Date: 8/14/2020 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 80 0.89 0.025 U 88.88 120 Benzene Toluene 0.91 0.050 1.000 0 91.1 80 120

0.050 0 91.9 80 120 0.92 1.000 Ethylbenzene 0 92.9 Xylenes, Total 2.8 0.10 3.000 80 120 120 Surr: 4-Bromofluorobenzene 1 1 1.000 106 80

0.9862

1.000

Sample ID: 2008698-006ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: H-8 South Batch ID: 54430 RunNo: 71111 Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478586 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 0.9862 96.8 76.3 120 0.95 n Benzene Toluene 0.99 0.049 0.9862 99.0 78.5 120 0.01096 0.9862 100 78.1 124 Ethylbenzene 1.0 0.0490.01192 Xylenes, Total 3.0 0.099 2.959 0.02904 101 79.3 125

TestCode: EPA Method 8021B: Volatiles Sample ID: 2008698-006amsd SampType: MSD Client ID: H-8 South Batch ID: 54430 RunNo: 71111 Prep Date: 8/14/2020 Analysis Date: 8/15/2020 SeqNo: 2478587 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual 0.94 0.025 0.9833 0 95.3 76.3 120 1.87 20 Benzene Toluene 0.97 0.049 0.9833 0.01096 97.3 78.5 120 2.06 20 Ethylbenzene 1.0 0.049 0.9833 0.01192 100 78.1 124 0.503 20 Xylenes, Total 3.0 0.098 2.950 0.02904 101 79.3 125 0.916 20 0 Surr: 4-Bromofluorobenzene 0.9833 107 80 120 0 1.1

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

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

B Analyte detected in the associated Method Blank

105

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

Sample ID: mb-54437 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 54437 RunNo: 71136

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SeqNo: 2480091 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

Sample ID: LCS-54437 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 54437 RunNo: 71136

Prep Date: 8/15/2020 Analysis Date: 8/17/2020 SeqNo: 2480092 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

Sample ID: mb-54415	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batch	n ID: 54 4	415	RunNo: 71105						
Prep Date: 8/13/2020	Analysis D	ate: 8/	15/2020	SeqNo: 2478157			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: 1,2-Dichloroethane-d4	0.46		0.5000		92.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.7	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			

Sample ID: Ics-54415	Sampl	Type: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batc	h ID: 54 4	415	RunNo: 71105						
Prep Date: 8/13/2020	Analysis D	Date: 8/	15/2020	SeqNo: 2478158			Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.46		0.5000		92.1	70	130			

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2008698**

20-Aug-20

Client: Safety & Environmental Solutions

Project: Devon Cotton Draw 10 Fed Com 2H 2RP-4804

Sample ID: mb-54415 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54415 RunNo: 71105

Prep Date: 8/13/2020 Analysis Date: 8/15/2020 SeqNo: 2478196 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 530 500.0 106 70 130

Sample ID: Ics-54415 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54415 RunNo: 71105

540

Prep Date: 8/13/2020 Analysis Date: 8/15/2020 SeqNo: 2478197 Units: mg/Kg

500.0

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 24 5.0 25.00 0 95.5 130

107

70

130

Qualifiers:

Surr: BFB

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

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

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Safety & Environmental Solutions	Work Order Number	: 2008698		RcptNo:	1
Received By:	Emily Mocho	8/13/2020 8:00:00 AM	I			
Completed By:	Michelle Garcia	8/13/2020 8:58:30 AM	l	Michell Go	mue	
Reviewed By:	113	8/17/20		•		
Chain of Cus	<u>tody</u>					
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u>						
3. Was an attem	npt made to cool the sample	es?	Yes 🗸	No 📙	NA L	
4. Were all samp	ples received at a temperat	ure of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗸	No 🗌		
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes 🗸	No 🗌		
7, Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preserva	tive added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at le	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any san	nple containers received br	oken?	Yes 🗀	No 🔽	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🔽	No 🗆	· /	12 unless noted)
2. Are matrices of	correctly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
	t analyses were requested?	•	Yes 🗹	No 🗌		n. 0 - 8/12/1)
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No 📙 💄	Checked by	me office
pecial Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🔽	
Person	Notified:	Date:				
By Who	g	Via:	eMailF	Phone 🔲 Fax	☐ In Person	
Regardi	A217211741771777777777777777777777777777					
	nstructions:					
16. Additional rer						
17. <u>Cooler Infor</u> Gooler No		Sool istore Seel No.	SEET MEETERS	oleco e		
- COURT IND	Temp ⁰C ← Condition	Seal Intact Seal No 5	Seal Date	Signed By		

Received by OCD: 11/16/2	2:10:24 PM	Page 105 of 111
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	### BOB1 Pesticides/8082 PCB's ### BOB1 Pesticides/8082 PCB's ### PAHs by 8310 or 8270SIMS ### RCRA 8 Metals ### CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ ### BCO (VOA) Time: Relinquished by: Received by Via: Pate Time Remarks: Received by Via: Pate Time Remarks: Received by Via: Pate Time Remarks: Time: Relinquished by: Aun Uurier 8/13/2, 8/20 Time: Relinquished by: Aun Uurier 8/13/2, 8/20	
490.	(ORN \ ORO \ DRO \ DRO \ MRO)	Remarks:
	BTEX / MTBE / TMB's (8021)	Rer 6 of this poss
Turn-Around Time: Standard Rush Project Name: Devon Lush Lush	Project Manager: ## Of Coolers: Container Preservative HEAL No. Type and # Type - 005 - 005	Received by Via: Rate Time S/2/20 0830 Received W Via: Date Time Date Time Two Cours of 13/20 8:00
Sulton Muth	Sample Name At-22.57 H-5 North H-5 North H-6 West H-6 West	Relinquished by: Relinquished by: Resupersubmitted to Hall Environmental may be subcontractions.
Chain-of-C Client: Arthur Address: 70 C Released to Imaging: 5/13/50 Phone #: 575.	1	Date: Time: Relinge

Devon – Cotton Draw Unit #10 Fed Com 2H Excavation Photos









Devon – Cotton Draw Unit #10 Fed Com 2H Excavation Photos









Devon – Cotton Draw Unit #10 Fed Com 2H Deferral Area Photos









Received by OCD: 11/16/2022 2:10:24 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Page 109 of 111
Incident ID nAB1816432279
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 19.15.29.1	1 NMAC			
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office			
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coraccordance with 19.15.29.13 NMAC including notification to the October 19.15.29.13 NMAC including notification to the October 20.15.29.15 NMAC including notification to the October 20.15 NMAC including notification to the October 20.15 NMAC including notification to the October 20.15 NMAC including notificatio	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially additions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.			
	Title: Env. Professional			
Signature: Dale Woodall	Date:11/16/2022			
email:dale.woodall@dvn.com	Telephone:575-748-1838			
OCD Only				
Received by:	Date:			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			

Received by OCD: 11/16/2022 2:10:24 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

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Incident ID NAB1911943617
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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office			
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)			
☐ Description of remediation activities				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in			
Printed Name: Dale Woodall	Title: Env. Professional			
Signature: Dals Woodall	Date:11/16/2022			
email:dale.woodall@dvn.com	Telephone:575-748-1838			
OCD Only				
Received by:	Date:			
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.			
Closure Approved by:	Date:			
Printed Name:	Title:			

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

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

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

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 159442

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	159442
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

rhamlet	We have received your closure report and final C-141 for Incident #NAB1911943617 COTTON DRAW 10 FEDERAL COM #002H, thank you. This closure is approved.	2/13/2023
Created By	Condition	Condition Date