Page 6

Oil Conservation Division

	Page 1 of 11
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall Title:Env. Professional
Signature: Dale Woodall Date: <u>11/16/2022</u>
email: <u>dale.woodall@dvn.com</u> Telephone: <u>575-748-1838</u>
OCD Only
Received by: <u>Robert Hamlet</u> Date: <u>2/13/2023</u>
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: <u><i>Robert Hamlet</i></u> Date: <u>2/13/2023</u>
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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Oil Conservation Division

	Page 2 of 11
Incident ID	NAB1911943617
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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.

<u>Closure Report Attachment Checklist</u> : Each of the following it	tems must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC	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 rer human health or 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 co accordance with 19.15.29.13 NMAC including notification to the O	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 nditions that existed prior to the release or their final land use in				
Printed Name: Dale Woodall	Title:Env. Professional				
Signature: Dale Woodall	Date: <u>11/16/2022</u>				
email: <u>dale.woodall@dvn.com</u>	Telephone: 575-748-1838				
OCD Orth					
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:				

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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	e Method 2		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	Method 2/21/20 2/2		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 Subsurface Estate

• Active

OSE District Boundary



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



New Mexico Office of the State Engineer Active & Inactive Points of Diversion

(with Ownership Information)

				(R=POD has been repla and no longer serves th	aced is 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) (N	
	Sub			Well	qqq	
WR File Nbr	basin Use Dive	ersion Owner	County POD Number	Tag Code Grant	Source 6416 4 Sec Tws Rng	X Y
<u>C 04632</u>	CUB EXP	0 DEVON ENERGY	ED <u>C 04632 POD1</u>	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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National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V
 New Mexico
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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.

Table of data					
Tab-separated data					
Graph of data					
Reselect period					

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
1966-08-18		D	400.00			:	2	L	I	
1976-01-28		D	390.27			:	2	L	I	

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	А	Approved for publication Processing and review completed.

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Accessibility

Policies and Notices

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

TSA.00

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

FOIA

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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









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

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











NEW MEXICO OFFICE OF THE STATE ENGINEER



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/Public Works Dewatering	Other(Describe): Groundwater Determination
Monitoring Well	The Second Se		
a segarate permit will be required	to app		ass if use is consumptive or nonconsumptive.
		bly water to beneficial use regardle	ess if use is consumptive or nonconsumptive.
A separate permit will be required		bly water to beneficial use regardle	ass if use is consumptive or nonconsumptive. Requested End Date:

1. APPLICANT(S)

Name: Devon Energy		Name:	
Contact or Agent:	check here if Agent 🔲	Contact or Agent:	check here if Agent 🔲
Dale Woodall			
Mailing Address: 6488 7 Rivers Hwy		Mailing Address:	
City: Artesia		City:	
State: NM	Zip Code: 88210	State:	Zip Code:
Phone: 575-748-1838 Phone (Work):	🗌 Home 🔳 Cell	Phone: Phone (Work):	Home Cell
E-mail (optional): Dale.Woodall@dvn.com		E-mail (optional):	

USE DII MAY 12 2022 PM1:33

FOR OSE INTER	VAL USE	Application for F	ermit, Form WR-07	r, Rev 11/17/18
File No.: C	04632	_ Tm. No.: 7	24249	Receipt No.: 2-44570
Trans Description	(optional): \	0 25	5 312	. 1.2.2
Sub-Basin:	C		PCW/LOG Due I	Dete: 5124123
				Page 1 of 3

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

(Lat/Long - WGS84).		in Course and Inter-	ite Plane (NAD 63), UTM (NAD 63), <u>or</u> Latitude/Longitude PLSS location in addition to above.
NM State Plane (NAD83) NM West Zone NM East Zone NM Central Zone		JTM (NAD83) (Meten]Zone 12N]Zone 13N	 Lat/Long (WGS84) (to the nearest 1/10th 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- 04452-POD1(FW-1)-	-103*45*41.06*	32*97.47*	NW NE NE Sec.10 T25S R316NMPM
NOTE: If more well locations Additional well descriptions			WR-08 (Attachment 1 – POD Descriptions) If yee, how many
Other description relating well Site ID:20 Location Name:Cotton Draw Ur		ks, streets, or other:	
Well is on land owned by: Bure	au of Land Manager	ment	
Well Information: NOTE: If m If yes, how many	nore than one (1) we	ell needs to be desc	ribed, provide attachment. Attached? 🗌 Yes 🔳 No
Approximate depth of well (fee	t): 55	0	Italde diameter of well casing (inches): 2.375 or 1.315
Driller Name: Jackie D. Atkins		0	iller License Number: 1249

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

A Soil Boring to determine 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 plugged immediately using augers as tremie to land a slurry of Portland TYPE VII Neat cement less than 6.0 gallons of water per 94 lb. sack. If no water is encountered then drill cuttings will be used to (10) ten feet of land surface and plugged using hydrated bentonits.

OSE DII MAY 12 2022 PH1:33

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Application for Permit, Form WR-07

File No.: C-04632 Trn No.: 7-26269

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this 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	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.
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 cover of the land on which the pollution plume control or recovery well is to be located. 	of. 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 quality of the water. 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 wellands within the area of hydrologic effect.

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Dale Woodall (Devon Energy)

Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Dale Woodall

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☐ approved ☐ partially approved ☐ denied 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 and further subject to the <u>attached</u> conditions of approval.

Witness my hand and seal this	1 day of May 20 22	r, for the State Engineer,
mike Hamm	QripP. 2. State Engineer	
By: K. Powehl	- Kash	yap Pare th
Title: Wolly 705	2	Ĭ
	FOR OSE INTERNAL USE	Application for Permit, Form WR-07
	File No.: C-04637	TM No. 776269

Page 3 of 3

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at a public sale hold by the 1964 (To be filled in only where lands are offered at public commissioner of public light on sala ! 124

To have and to hold said land, and all the rights and privileges granted hereunder, to and unto the losses for a primary term of dive years from the data hereol, and as long thereafter as oil and gas in paying quantities, or either of them, is pro-duced from said land by the lower, subject to all of the terms and conditions as bereinafter ast forth.

In consideration of the pretrises the parties convenent and agree as follows:

1. Subject to the fram use without regulty, as increinhefore provided, the leases shall pay the leaser as regulty enc-claims, part of the cill produced and saved from the leaser, such value to be the price prevailing the day of its run into a pipeline. If the cill be run into a pipeline, or into storage tanks, if the cill be alread

¹ 2. Subject to the free use without royalty, as hereinbefore provided, the based and pay the leaser as royalty one-eighth of the resh value of gas, including easing herei gas, produced and saved frain the leased precises and marketed or utilized, such value to be equal to the granter of the following amounts:

 $\{ f_{0} \}$ the net precede durived from the sale of such gas in the field, or

(b) five cents (\$0.05) per theusend ended that (m.c.f.) the volume of gas for such purposes to be computed on a presente basis of 10 conces above an awared stimulation presents of 14.4 pointing per square inch stability, at 80° Yahrenheit, and purposes to appropriate regulations of the commissioner of public lands which may provide smeny other things, for a flowing temperature of 80° Pahrenheit to be mentioned at a flowing temperature of 80° Pahrenheit to be mentioned and public lands which may provide smeny other things, for a flowing temperature of 80° Pahrenheit to be mentioned on a flowing temperature of 80° Pahrenheit to be mentioned on a public lands which may provide smeny other things, for a flowing temperature of 80° Pahrenheit to be mentioned on a flowing temperature of 80° Pahrenheit to be mentioned on a flowing temperature of 80° Pahrenheit to be mentioned on a public lands where a recording gravitameter is not completed by the lease in gas measurement, and for specific gravity tests at the leases at intervals not greater than the year in all cases where a recording gravitameter is not completed by the layer and and and the specific gravity bests at the lease of layers and a specific provide day the layer at an an approximation of liquid hydrocorbox shall be equal to the net protectly derived in a gas along the part in the mate and the part for antraction of liquid hydrocorbox shall be equal to the net protectly derived from the sale of each year.

Notwithstanding the foregoing provisions, the lesser acting by its reministence of public lands, may require the payment of revelty for all or any part of the gas produced and saved under this lesse and moritorial or utilized at a price per mini-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 ready which of any such gas (to any smooth not has than the net protected of sole 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 of or gas purposes of to encouragement of the greatest ultimate recovery of oil or gas or to the purpose, of one conservation of oil or gas purposes of to encouragement of the greatest ultimate recovery of oil or gas or to the purpose. 11.2

This innot shall not extire at the end of other the primero or secondary seen, hereof if there is a well capable of produc-ing the in mying quantifies located upon some part of the leads embraced herein where such well is shut-in due in the in-ability of the leads upon which back well is located shall pay as annual regulty equal to the annual rented powells, by such element on the leads upon which back well is located shall pay as annual regulty equal to the annual rented powells, by such element under the terms of this leads but not leads have no hardred delaws (S100.00) per well per yets, said regulty to be paid on or balare the annual rented paying due next ensuing after the exploration at ninety days from the date mid well was shull in ord on or before said contait due thereafter. The payment of said annual regulty days from the date mid well was shull in ord on a before said contait due thereafter. The payment of said annual regulty days from the date mid well were was the regulty paid for the lease yaying quantifies and upon the commendation of more dated of all purposes the same as if gas were being produced in paying quantifies and upon the commendation of more being marketed from said well well was shull in the regulty paid for the lease yas in which the gas is first marketed shall be credited upon the routity payable bereated to the leaser for such your. The providens of this active shall also spoly where gas is being marketed from soid lossebold premitees and through no tent of the lease, the pipeline contextion of marketing has provide and its lease shall not ex-pire so long as and stand to which is paid as beam provided. Exactificationing has provided and the lease that an its pay and the shall as beam provided. Exactificationing the provide and the state term of the spore date to market is low or cases. In which the pay gas the beam is the provide provide and the provide provide term provide terms and the spore date terms and the provide spore terms provided. Exact the approved and the spressin of mid annual revailes.

3. Lesses agrees to make full settlement on the 20th day of such month for all reveltles due the lesser for the preceding month, under this lesse, and to permit the lesser or its agents, at all resonable hours, to cancelle lesser's books relating to the production and dispetition of oil and gas produced. Lesser further agrees to submit to lesser annually upof forms further the lesser, werilled reports showing lesser's operations for the preceding yeer.

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 provided the increase in prevent the termination of this lense ingregates to seer, by the payment or tender of the further restal hereinative provided for. 250

dollars (\$5.00).

In the event the leave shall elast to surrender any or all released acrease, he shall deliver to the commissioner a duly executed release thereof and in event acid leave has been recorded, then he shall upon request furnish and deliver to raid commissioner a certified copy of a duly recorded release.

5. The leave may at my time by proving to the state of New Maxim. string by its complicationer of public lands, or other automized officer, all amounts then due to provided herein and the further sum of ten dollars (\$10,00), surrender and cancel this leave insofter as the same officers of one position of the lands herein leaved and be reliaved from further obligations or liability becomer, in the manner as beteinbalone provided. Provided, this surrender clause and the option herein reserved to the leave shall come and become absolutely inoperative immediately and concurrently with the institution of any suit in any court of low or equity by the leave, leave, or any samples, to enforce this leave, or any of its terms express or implied.

6 All payments due horeender shall be made on or before the day such payment is due, in each or by certified eachenge at the office of the hormalisation of public loads in Scate 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 so maintimes of an univoid internat in the lease or in any part theread nor any assignment of least the saint in the lease. Upon expression is writing by the lease of a sufficient of the saint of the saint of the lease of the saint of the saint of the saint of the saint of the lease of the lease of the lease of the lease of the saint of th

8. In the event a well or wells producing oil or gap in paying quantities abould be brought in on objected had draining the loosed premises, lease shell drill such offset well or wells as a renormably product operator would drill under the same of phollar directores.

1. The losses agrees to notify the losser of the losselies of each well below commencing drilling thereon, to keep a complete and connecte key of each well drilled and to furnish a copy thereof, varified by sume prices having actual knowledge of the facts to the losser upon the completion of any well, and to furnish the log of any unfinited, well, at any time when requested to do so by the losser. USE D11 MAY 12 2022 PM1:35

If any lands embrated is this losse shall be included is any deed or contrast of purchase substanding and subsisting issued pursuant to stay sale made of the surface of such lands prior to the date of this leave, it is agreed and understrood that as defining operations shall be commenced on any such lands as and under and outlit the leaves or bis assignee shall have filed as good and sufficient hand with the leaver as required by law, to secure the payment for such damage to the fivestock, range, water, drops or langible improvements on such lands or and laws be sufficient by the purchaser helding such deed or contrast of purchase, or his successors, by reason of the devolutionia, use and occupation of such laws by such leaver. Provided, how-water, that no such bend shall be required if such purchaser shall waive the right to require such bend to be given in the manner purchase.

30. In drilling walks all water-bearing strate shall be toxed in the log, and the lower resources the right to require that all or ony port of the onder shall be left in any comproductive walk when lessor deems it to the interest of the state of New Mexico to maintain said well or wals for water. For such easing so left in wells the lesser shall pay to the lesser the reasonshis value thereof.

11. Lesses shall be liable and agree to pay for all dumages to the range, livestrek, growing crops or improvements caused insees a parations on sold lands, "When requested by the lesses, the lesses shall be ploy ploylines below plow depth." 24

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13. Upon failure or default of the issue or any assignce to comply with any of the provisions or covenants hereof, the least is bareaby authorized to cancel this mass and such controllation shall extend to one brouds all rights hereunder as to the whole of the tract so claimed, or powerset by the least ar assignce an defaulting, but shall not extend to, nor effect the rights of any other herein any such concellation shall extend to out brouds all rights hereunder as to the whole of the tract so claimed, or powerset by the leasts upon which an dynauth has been Bade: provided, however, that before any such concellation shall be made, the leasts upon which an dynauth has been Bade: provided, however, that before any such concellation shall be made, the least shall not be been as assigned to be been by the state land efficience of interview of the state land efficience of another of interview by the bar extended of the state land efficience of interview of the state land efficience of another of interview of the state land efficience of interview of the state land efficience of interview of the state land efficience of another of another of an efficience of another of another of another of another of the state land efficience of another of anothe

14. All of the terms of this agroument shall extend to and kind the hairs, engentees, administratory, successors and assigned

11. If the leases shell have failed to make discovery of oil or gas in paying quantities during the primary term hereof or it with discovery shell have been made and production that have caused for any reason, the lease may continue this have in. bill forke and either for an edditional form of the years, and as long thereafter as eil and gas in pooling quantities or either of them is perdaced from the balance is of the years, and as long thereafter as eil and gas in pooling quantities or either of them is perdaced from the balance is any per thereof, may be situated. (i) he goaler (too double the restill provided for the primary term, provided, however, such vestal should be paid within the time proceeding by Beetion 15 horest, and provided for the primary term, provided however, such vestal should be factovered during the secondary term. Intered, and provided for the fit for the least, as in point guantities should be factovered during the secondary term. Intered, by production should end the discovered during the secondary term. Intered, and revised of grass is paying quantities being produced at the end of the secondary term of live from the least of the secondary terms is long themselver as off off in eit or gas in paying quantities being produced from the leased premises.

These in paying quantities or other of their is produced from the caused premases. 16. If this leave shall have been maintoised in accordance with the provisions heread and if at the expansion of the som-produce there provided for herein all or gas is not being produced on soid fand but haven or any assume is that surplus entropical in-been like fulfilling or revolution operations thereon, this leave shall remain in full force and effect so long as such "sparations are difficulty preserved for herein all or gas is not being provided on soid fand but haven or any assumpt is that work "sparations are difficulty preserved and, if they result in the production of all remain in full force and effect so long as such "sparations are difficulty preserved and, if they result in the production of all or gas, so leng thereafter as all and gas in paying quantifies, are difficulty preserved by the leaver upon written application like with the leaver on or before the approximation of soid term, and a report at the status of all such operations shall be made by the leaver to the leaver every thirty days and a constition of both opera-tions for more then twenty consecutive days shall be considered as a obtendenment of such operations and hereupen the pre-vious hereof shall be of no hereber force or offlet. Operations convenced and continue distant provided shall eatend this provided, however, this leave shall be subject to convolution for failure to pay sentation or to otherwise comply with the force provided, however, this leave shall be subject to convolution is hared.

17. Should production of oil or ges of other of them in poving quantities to obtained while this leave is in force and effect and rhould thereafter cause from any cause after the explorition of ten years from the date hermof this leave shall not terminate if leaves commences additional dutiling as reversing meralizes within sinv days after the consultant of a cause shall not terminate if leaves commences additional dutiling as reversing meralizes within sinv days after the consultant of a cause shall not terminate if leaves commences additional dutiling as reversing meralizes within sinv days after the consultant of a cause shall not terminate if leaves commences and effect as leave as and near the production of cill or gas in posing quantities to leave the such operations and the production of cill or gas in posing quantities to leave the set and the production of cill or gas in posing quantities to commence after as cill or gas in posing quantities to leave the set of the set production of a carb production, and report of the set transition of such operations shall be field with the leave in the leaver every thirty days, and the constant of such operations for more then twenty constitute days shall be considered as an abandment of such operations and this leave shall be made to considered as an abandment of such operations and the leave shall be considered as an abandment of such operations and the set of the set terminate. minstri.

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 sutherized, with the seal of his office affined, and the leaves has signed this agreement the day and your first shows written. 16234

Approved as to Ternsi 154	El Cade prolo
	Completener of Public Lands, Leaser
Approved as to Form: WWL.	点:"你说, 了 , 人 ,你们,你们就能能
Approved as to rota:	TEXACO INCA
	by: Maraly (Beel)
23rd	November In-Past Leaven 64
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(ACKNOW STATE OP. XEKAS COUNTY OF. MIDIAND The foregoing instrument was schnowledged bef J. H. Markley, Attorney-in-Fact (Name) (This) Deleware Corporation	DSE DII MAY 12 2022 PM

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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: <u>C 04632</u> Trn Number: <u>726269</u>

page: 1

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

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

- 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.
- 17-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.
- 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: <u>C 04632</u> Trn Number: <u>726269</u>

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: 05/12/2022Pub. 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

C. Parepl

Trn Desc: C 04632 POD1

File Number: <u>C 04632</u> Trn Number: <u>726269</u>

page: 3



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

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

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

see the State English				10	CHE STATE
	h		DIG	E.	
	N	ELL PLUGG	17 THE T.	S. EX	
***	PLAN	N OF OPERA	TIONS	19	1911 - P.1
OTE: A Well Plugging Pla used to plug a single well, or	n of Operations shall be filed if you are plugging multiple :	with and accepted by the O monitoring wells on the san	office of the State E ac site using the same	lagiaser pris me plugging	er to plugging. This form may be methodology.
rgmn/ if within an area of in construction reflected in a w	terest and meets the minimum ell record and log is not comp	construction requirement consist, contact AMP at 5	s, such as there is a 75-835-5038 or -695	till water in y 51, or by emi	nfo.nmt.edu/resources/water/ your well, and the well all nmbg-waterlevels@amt.edu, sy the plugging of your well until
. FILING FEE: There	e is no filing fee for this f	'oem.			
IL GENERAL / WELL					is on the same site and attaching W
Existing Office of the	State Engineer POD Nu	mber (Well Number)	for well to be p	olugged: C	- 4632- (POD-1)
Name of well owner:	Devon Energy				
Mailing address: 648	8 7 Rivers Hwy			unty:	Eddy
Ciry: Artesia		State:	NM		Zip code: 88210
		E-mail;	Dale.Woodall@	gdvn.com	
III. WELL DRILLER			Atkins Engineer	ring Associ	
III. WELL DRILLER	INFORMATION:		Atkins Engineer	ring Associ	ates) 04/30/2023
III. WELL DRILLER Well Driller contracted t New Mexico Well Drille	INFORMATION: to provide plugging servi er License No.: <u>1249</u>	ices: Jackie D. Atkins (Atkins Engineer	ring Associ ation Date:	04/30/2023
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New Mexico Well Drill IV. WELL INFORM/ Note: A copy of the exist 1) GPS Well Loca 2) Reason(s) for p	INFORMATION: to provide plugging servi er License No.: <u>1249</u> ATION: Check here if supplemental sting Well Record for the ttion: Latitude: Longitude:	this plan describes method form W13-48m and ship to twell(s) to be plugged a 32deg, 103deg,	Atkins Engineer Expira for plagging multi #2 in this section. should be attach 9 min,	ring Associ ntion Date: ple monitori ed to this p 7.47 41.06	04/30/2023 ng wells on the same site and atta dan. _500
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III. WELL DRILLER Well Driller contracted it New Mexico Well Drille IV. WELL INFORM/ Note: A copy of the exit 1) GPS Well Loca 2) Reason(s) for p Soil boring to d 3) Was well used what hydrogeo water, authoriz 4) Does the well it	INFORMATION: to provide plugging servi er License No.: 1249 ATION: Check here if supplemental sting Well Record for the tion: Latitude:	this plan describes method form WD-98m and skip to well(s) to be plugged a 32 deg, 103 deg, vel tg program? <u>NO</u> monitored. If the wel ico Environment Depar therwise poor quality w	Atkins Engineer Expira for plagging multi 12 in this section. should be attach 9 min, 45 min. 45 min. 1 was used to r tment may be re ater? N/A	ring Associ ntion Date: ple monitori ed to this p 7,47 41.06 CSE 0 use section nonitor co quired price 1f ye	04/30/2023 ag wells on the same site and atta lan. _sec sec, NAD 83 II MAY 12 2022 PML:33 a VII of this form to detai attaminated or poor quality or to plugging.

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	Casing material: Temporary PVC SCH 40	
	The well was constructed with:	
	an open-hole production interval, state the open interval:	1 %
	a well screen or perforated pipe, state the screened interv	val(s):
)	What annular interval surrounding the artesian casing of this well	is coment-grouted? N/A
	Was the well built with surface casing? NO If yes, is the	annulus surrounding the surface casing grouted or
	otherwise scaled? If yes, please describe:	

 Has all pumping equipment and associated piping been removed from the well? ______If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

	If plugging method differs between multiple wells on same site, a separate
V. DESCRIPTION OF PLANNED WELL PLUGGING:	If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: 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 diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

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 liffs

2) Will well head be cut-off below land surface after plugging? <u>N/A</u>

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty coment or specialty scalant. Attach a copy of the batch mix recipe from the coment company and/or product description for specialty coment mixes or any scalant that deviates from the list of OSE approved scalants.

- For plugging intervals that employ cement grout, complete and attach Table A.
- For plugging intervals that will employ approved non-cement based scalant(s), complete and attach Table B.
- Theoretical volume of grout required to plug the well to land surface: 87
- Type of Cement proposed: Type I/II Neat Cement
- 5) Proposed cement grout mix: <a>8.0 gallons of water per 94 pound sack of Portland cement.
- Will the grout be: _____batch-mixed and delivered to the site

X ____ mixed on site

USE OF MAY 12 2022 #1:33

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

Grout additives requested, and percent by dry weight relative to cement:

		۰.	
2	s	1	

Additional notes and calculations:

Site ID:20 Location Name:Cotton Draw Unit 134H

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

The temporary well material will be removed. If no water is encountered then drill cuttings will be used to (10) ten feet of land surface and plugged using hydrated bentonite. If ground water is encountered the boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts. A 6.5" borehole will be plugged.

VIII. SIGNATURE:

I, Dale Woodall (Devon Energy) ______, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Jack Handed	04/25/2022
Signature of Applicant	Dute
IX. ACTION OF THE STATE ENGINEER:	
This Well Plugging Plan of Operations is:	
Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.	OSE DII MAY 12 2022 PM1:34
Witness my band and official seal this <u>17th</u> day of <u>May</u> Mile A - Ham John R. D'Antonio Jr. P.E.,	New Mexico State Engineer
By: K. P.J.	AP PAREKH
	R = M = ⊥ WD-08 Well Plugging Plan Version July 31, 2019 Page 3 of 5

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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	N/A	<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 DIT MAY 1:2:2022 PM1:3

.

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 DIJ MRY 12 2022 PM1:34



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

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 NMOSEregistered 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 <u>https://www.ose.state.nm.us/Statewide/wdForms.php</u>. 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,

-Parekl

Kashyap Parekh Water Resources Manager I


1.1

PLUGGING RECORD



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

. . .

4 4

. . .

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L GENERAL / WELL OWNERSHIP:

Maili	ng address:6488 7 Rivers H	wy			25			5-748-1838		
City:	Artesia		State:		New	v Mexico	_	_ Zip cod	e: 8821	10
u. w	ELL PLUGGING INFORM									
1)	Name of well drilling con	pany that plugg	ed well: 🖄	Jackie D.	Atkins (Atkins E	ngineering	Associates	Inc.)	
2)	New Mexico Well Driller	License No.:	249				Expin	ation Date:	04/30/2	23
3)	Well plugging activities w Shane Eldridge, Cameron		by the follo							
4)	Date well plugging began	6/14/2022	_	Date	well pl	ugging c	oncluded:	6/14/202	2	
5)	GPS Well Location:	Latitude: Longitude:		_deg,deg,	9 45	min, min,	the second se	sec sec, WGS	s 84	
5)	Depth of well confirmed a by the following manner:	t initiation of pl water level prot	lugging as: be	55	ft be	low grou	und level (bgl),		
7)	Static water level measure	d at initiation o	f plugging:	n/a	ft bg	gJ				
8)	Date well plugging plan o	f operations was	s approved	by the St	ate Engi	ineer: _	5/26/2022			
9)	Were all plugging activitie differences between the ap						Yes I (attach a	If not, dditional pa		

05E 011 JUN 16 2022 #3:12

Version: September 8, 2009 Page 1 of 2 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 1	the follow	ing columns	:

ated Bentonite	Approx. 15 gallons	15 gallons	Augers	
6' Cuttings	Approx. 71 gallons	71 galions	Boring	
			OSE OT .	UN 16 2022 #312
		MULTIPLY cubic feet a st		MULTIPLY BY AND OBTAIN

III. SIGNATURE:

I. _______, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

6/16/2022

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2



WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

OFFICE OF THE STATE ENGINE

www.ose.state.nm.us

N	OSE POD NO. (W POD 1 (TW-1)				WELL TAGID N N/A	ю.		OSE FILE NO C-4632	5).					
DCATIC	WELL OWNER N Devon Energy							PHONE (OPT) 575-748-18	1 - 0 0 0 0					
VELLL	WELL OWNER M 6488 7 Rivers		ADDRESS					any Artesia			88210	219		
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)	1.11	TUDE	SGREES MINUTES SECONDS 32 9 7.47 N 103 45 41.06 W					DEQUERCE: ONE 11 QUERED: WOS 84	SMTH OF	A SECOND			
1. GENE	URSCRIPTION R	12 ATIN	GITUDE 6 WELL LOCATION TO 255 R315 NMPM	STREET ADD	RUIT ADDRESS AND COMMON LANDMARKS - PLSS (SECT									
1	LICENSE NO. 1249		NAME OF LICENSED	DRILLER	Jackie D. Atki	08	_		NAME OF WELL		I COMPANY ng Associatos, I	DE.		
10	DRILLING STAR 6/8/2022	100 C 10	DBILLING ENDED 6/8/2022		OMPLETED WELL emporary Well	(PT)	Contraction of the second second	се верти (рт) ±\$5	DEPTH WATER F		XIONTEXED (PT) I/A			
N	COMPLETED WE	LL IS	ARTESIAN	7 DRY HO	ONFINED)	STATIC WATER LEVEL DATE STATIC ME. IN COMPLETED WELL N/A 6/14/202								
MATIO	DRILLING FLOID AIR MUD ADDITIVIS - SPECIFY: DRILLING METHOD: ROTARY HAMMER CASLE TOOL 7 OTHER - SPECIFY: Hollow Stem Auger INSTALLED													
CASING INFORMATION	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)			(include each casing string, and			ASING NECTION	CASING INSIDE DIAM	CA	SING WALL HICKNESS	SLOT SIZE (inches			
DRILLING & CAS	0	55	46.5	nok	e soctions of scree Boring-HSA	e)		ling diameter) -	(inches)		(inches) -			
2. DRILL														
	DEPTH (fee	t bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL A GRAVEL PACK SIZE-RANGE BY INTE				AMOUN" (cubic fee		METHOD OF PLACEMENT				
3. ANNULAR MATERIAL	TAUR	10							055.07 J	N_6	XJZZ PMSCI	2		
3. ANA														
ILE		+6	52 · 315· 10		POD 1	NO. 1		WR-2 TRN 1	NO. 72	62	69	8/2022) 1 OF 2		

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	DEPTH (fee	t bgl)		COLOR A	ND TYPE OF MATE	LAL ENCOUNTERED	e -	WA	TER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WAT	ER-BEARING CAVI	TIES OR FRACTURE : fully describe all units	ZONES	BEAL	UNG? / NO)	YIELD FOR WATER- BEARING ZONES (gpm
	0	4	4	Sand, Fine-grain	ed, poorty graded, une	onsolidated 7.5 YR 5/4,	Brown	Y	√N	
	4	23	19	Sand, Fine-grained,	poorly graded, with C	uliche, 7.5 YR 7/6, Redd	lish Yellow	Y	√ N	
	23	47	24	Sand, Fine-gr	uined, poorly graded,	7.5 YR 7/6, Reddish Yel	llow	Y	√N	
	47	55	8	Sand, Pine-J	rained, poarly graded,	5 YR 7/6, Reddish Yell	aw	γ	√N	
								Y	N	
÷								Y	N	
								Y	N	
5								Y	N	
		- 1						Y	N	
							1	Y	N	
								Y	N	
								Y	N	
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f				e				Y	N	
		1						Y	N	
				·				Y	N	
								Y	N	
								Y	N	
								Y	N	
								γ	N	
	METHOD USI	D TO ES	TIMATE YIELD	OF WATER-BEARD	G STRATA:		TOT	L ESTIN	MATED	
	D PUMP		IR LIFT	BAILER 🔤 🛛	THER - SPECIFY:		WEL	L YIELI) (gpm):	0.00
	WELL TEST	TEST	RESULTS - ATT T TIME, END TI	ACH A COPY OF DA	TA COLLECTED DU	RING WELL TESTING	G, INCLUDE N OVER THE	NG DISC	HARGE M	METHOD, D.
3. 1531, NUMBER OF BRAISS	MISCELLANE	OUS INI	bi 20	tlow ground surface(bgs), then hydrated	boring backfilled ua bentonite chips ten fe	et bgs to sur	face.		epth to ten fee (943:12
1	PRINT NAME	(S) OF D	RILL RIG SUPER	WISOR(S) THAT PR	OVIDED ONSITE SU	PERVISION OF WELL	CONSTRUC	TION O	THER TH	IAN LICENSEI
	Shane Eldridg	e, Came	ron Prwitt				an a de la coma	CONTROL	12330,000	
	CORRECT RE	CORD O EMIT HO	F THE ABOVE I	DESCRIBED HOLE A 10 DAYS AFTER COM	ND THAT HE OR SE	R KNOWLEDGE AND E WILL FILE THIS W DRILLING:		D WITH		
5		SIGNAT	URE OF DRILLE	R / PRINT SIGNEI	NAME				DATE	
0	R OSE INTERNA	LUSE				WP-2	WELL REG	ORDA	LOG/Ver	raion 01/28/202
_	END C-4		2		POD NO.	TRN N	Contraction in the local division of the loc	26	of the second	1
					and the second state of th					



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 726269 Pile Nbr: 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,

e++121 Arren

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 U	ΓM in meters)	
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Ŷ	
NA	C 04632 POD1	1 2 2	10	25S	31E	616802	3557964	
^x Driller Licen Driller Name		Driller Compa	ny:	AT	KINS E	INGINEERIN	NG ASSOC. I	NC.
Drill Start D	ate: 06/08/2022	Drill Finish Da	te:	0	6/08/20	22 Ph	ıg Date:	06/14/2022
Log File Dat	e: 06/16/2022	PCW Rev Date	e:				urce:	
Pump Type:		Pipe Discharge	Size	:		Es	timated Yield	1:
Casing Size:		Depth Well:		5	5 feet	De	pth Water:	

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



New Mexico Office of the State Engineer Transaction Summary

			EXPL Permit To Explor	·e	
nsaction Num	nber: 72626	59	Transaction Desc: C 04632	POD1 File	Date: 05/12/2022
	Status: API	R App **** VON EN	roved ERGY		
x Events					
41m	Date)5/12/2022	Type APP	Description Application Received	Comment *	Processed By *****
	05/12/2022	TEC	Technical Report	*PLG PLN OPS C-	*****
)5/26/2022	FTN	Finalize non-published Trans.		****
C	06/16/2022	QAT	Quality Assurance Completed	SQ2	*****
images (06/16/2022	LOG	Well Log Received	*	*****
get (06/16/2022	LGI	Well Log Image	*PLG RECORD C-	*****
(06/23/2022	QAT	Quality Assurance Completed	IMAGE/WELL	*****
C	06/23/2022	QAT	Quality Assurance Completed	IMAGE/PLUGGING	*****
0	06/24/2022	DRY	Dry well log received		*****
0	08/01/2022	QAT	Quality Assurance Completed	IMAGE/LOG	*****
C	08/01/2022	QAT	Quality Assurance Completed	IMAGE/LGI	****
x Water Rigl WR File	ht Informatio	on Acre	es Diversion Consumpt	ive Purpose of Use	
C 04632			0 0	EXP EXPLORATION	DN
**Poin	t of Diversio	n			

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

"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.
- 6 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

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, or suitability for any particular purpose of the data.

8/31/22 12:48 PM

TRANSACTION SUMMARY

				ico Office of <mark>er Right</mark>			-	r	
P	WR File Number:	C 04632	C 04632 Subbasin: CU			eference:	-		
	Primary Purpose:	EXP	EXPLORAT	ΓΙΟΝ					
g <u>et image list</u>	Primary Status: Pl		T PERMIT						
	Total Acres:			Subfile: -			Header:		
	Total Diversion:	0		Cause/Case: -					
	Owner:	DEVON	ENERGY						
	Contact:	DALE W	OODALL						
Documents	x on File		Status		From/				
_	Trn # Doc File	Act	1 2	Transaction Desc.	То	Acres	Diversion	Consumptive	
get images	726269 EXPL 2022-	05-24	PMT APR	C 04632 POD1	Т	0	0		
POD N	x oints of Diversion Number Well 32 POD1 NA	Tag Sour	-	× ×	TM in meters) X Y 2 3557964	Other 1	Location De	50	

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





Received by OCD: 11/16/2022 2:10:24 PM CDU Fed Com 10 2H

Low Karst Area



Google Ear

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900 ft

Received by OCD: 11/16/2022 2:10:24 PM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

Page 48 of 111



Releasea to Imaging: 2/13/2023 P.93:39 PM 1,500 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



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)

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. Keine

Celey D. Keene Lab Director/Quality Manager



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 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	% 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	10400	16.0	02/13/2020	ND	432	108	400	0.00			
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	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	% 41-142	2								
Surrogate: 1-Chlorooctadecane	401	% 37.6-14	7								

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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, SM4500Cl-B	mg	/kg	Analyze	d 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	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*	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	2						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 2' (H000417-03)

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	99.7	% 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	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	2						
Surrogate: 1-Chlorooctadecane	97.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 SURFACE (H000417-04)

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*	0.236	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 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	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	
DRO >C10-C28*	5120	10.0	02/13/2020	ND	224	112	200	3.96	
EXT DRO >C28-C36	1290	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	264 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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	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	99.8	% 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	624	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*	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	2						
Surrogate: 1-Chlorooctadecane	96.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 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						

Cardinal Laboratories

*=Accredited Analyte

Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 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	2						
Surrogate: 1-Chlorooctadecane	299 9	% 37.6-14	7						

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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 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, 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	02/12/2020	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	2						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 - 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, SM4500Cl-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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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 SURFACE (H000417-10)

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*	0.380	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 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	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	2						
Surrogate: 1-Chlorooctadecane	211 9	% 37.6-14	17						

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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 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	% 41-142	2						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



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, SM4500Cl-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	% 37.6-14	7						

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Celer Di Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celec Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Manand, Hobbs, NM 88240



520

PM

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Markind, Hobbs, NM 88240 (576) 393-2326 FAX (575) 393-2476

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TEQUEST REQUEST		y and Environmental Solutions	
		-2326 FAX (575) 393-2476	



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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2004067-001

Analytical Report Lab Order 2004067

Date Reported: 4/7/2020

Hall Environmental Analysis Laboratory, Inc.

Cotton Draw 10 Fed Com 2H Devon WO

Client Sample ID: SP-1 1ft Collection Date: 3/30/2020 9:50:00 AM Received Date: 4/2/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	580	60	mg/Kg	20	4/5/2020 9:42:44 PM	51572
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	t: 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				Analys	: 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					Analys	: 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

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 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

Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2004067-002

Analytical Report Lab Order 2004067

Date Reported: 4/7/2020

Hall Environmental Analysis Laboratory, Inc.

Cotton Draw 10 Fed Com 2H Devon WO

Client Sample ID: SP-2 1ft Collection Date: 3/30/2020 10:15:00 AM 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	E				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	т				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

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 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

•	& Environmental Solutions Draw 10 Fed Com 2H Devon V	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

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2004067

07-Apr-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	z Environmental Solutions Draw 10 Fed Com 2H Devon V	VO 20713							
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						
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) Surr: DNOP	ND 50 9.0 10.00	89.6 55.1	146						
Sample ID: LCS-51541	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 51541								
Prep Date: 4/3/2020	Analysis Date: 4/5/2020	SeqNo: 2344069	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	45 10 50.00	0 90.3 70	130						
Surr: DNOP	4.3 5.000	85.8 55.1	146						
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 PQL 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						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit 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 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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2004067

07-Apr-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2004067

07-Apr-	-20
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•	& Environmental Solutions n Draw 10 Fed Com 2H Devon WO 20713										
Sample ID: mb-51530	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 51530			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				
Surr: Dibromofluoromethane	0.45		0.5000		89.1	70	130				
Surr: Toluene-d8	0.49		0.5000		97.3	70	130				
Sample ID: Ics-51530	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List				List						
Client ID: BatchQC	Batc	h ID: 51	1530 RunNo: 67853								
Prep Date: 4/2/2020	Analysis [Date: 4/	5/2020	S	SeqNo: 2	343896	Units: mg/Kg	g			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.86	0.025	1.000	0	86.5	80	120				
Toluene	1.1	0.050	1.000	0	105	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.1	0.10	3.000	0	104	80	120				
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130				
Surr: Toluene-d8	0.50		0.5000		99.2	70	130				
Sample ID: mb-51487	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volati	les Short	List		
Client ID: PBS	Batc	h ID: 514	487	F	RunNo: 6	7881					
Prep Date: 4/1/2020	Analysis [Date: 4/	5/2020	S	SeqNo: 2	345162	Units: %Rec				
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	Samp	Гуре: LC	S4	Tes	tCode: El	PA Method	8260B: Volati	les Short	List		
Client ID: BatchQC	Batc	h ID: 514	487	F	RunNo: 6	7881					
Prep Date: 4/1/2020	Analysis [Date: 4/	5/2020	S	SeqNo: 2	345164	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
- 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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

•	Environmental Solutions braw 10 Fed Com 2H Devon	WO 20713						
Sample ID: mb-51530	SampType: MBLK	TestCode: EPA Method	Range					
Client ID: PBS	Batch ID: 51530	RunNo: 67853	3					
Prep Date: 4/2/2020	Analysis Date: 4/5/2020	SeqNo: 2343932	Units: mg/Kg					
Analyte		e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 490 500.0	97.5 70	130					
Sample ID: Ics-51530	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline F	Range				
Client ID: LCSS	Batch ID: 51530	ch ID: 51530 RunNo: 67853						
Prep Date: 4/2/2020	Analysis Date: 4/5/2020	SeqNo: 2343933	Units: mg/Kg					
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Gasoline Range Organics (GRO)	23 5.0 25.00	0 0 93.5 70	130					
Surr: BFB	500 500.0) 101 70	130					
Sample ID: mb-51487	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline F	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	e 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 F	Range				
Client ID: LCSS	Batch ID: 51487	RunNo: 67881						
Prep Date: 4/1/2020	Analysis Date: 4/5/2020	SeqNo: 2345214	Units: %Rec					
Analyte	Result PQL SPK value	e 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

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07-Apr-20

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17. Cooler Information

Coplet No	Temp %	Condition	Seal Infact	Seal No	Seal Date	Signed By
1	1.4	Gott				
2	1.2	Good				

Page 1 of 1
Received by OCD: 11/16/2022	2:10:24 PM		Page 73 of 1
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 605-345-3975 Fax 505-345-4107 Analysis Request	fgruely		Remarks: E. Mail det. To BOB Bull Reven Keiney Jerry
	BTEX / MTBE / TMB's (8021)		1 21
Turn-Around Time: 5 days Turns 2 Standard II Rush Project Name: Dayon Corresh Draw to Fellem 2h Was 2071 2717 Project #: DSU-20 008	Project Manager:		Received by Via: Date Time Time The Tecever by Via: Date Time Time Theorem by Via: Via: Date Time Time Theorem by Via: Via: Date Time Time Theorem by Via: Via: Date Time Time Time Time Time Time Time Tim
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Chain-of-Custody Record Client-Salida + Witharkinaut Mailing Address: 713 E. Clintrens Mailing Address: 713 E. Clintrens Phone #: 575-397-0510		8120 0460 & SP-1 1-F	Of billook Retraushed by (Date: Tome. Retraushed by (Date: Tome. Retraushed by (1/2/ 19/0 2011)



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 4901 Hawkins NE Albuquerque, NM 87109 2008699-001

Project:

Lab ID:

Analytical Report Lab Order 2008699

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-3 2.5ft Devon Cotton Draw 10 Fed Com 2H 2RP Collection Date: 8/11/2020 9:35:00 AM 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р 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 Oual** 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 ORGANICS 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 8/17/2020 3:14:28 PM mg/Kg 1 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.
 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 12

Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2008699-003

Analytical Report
Lab Order 2008699

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 10 Fed Com 2H 2RP

Client Sample ID: H-5 West Collection Date: 8/11/2020 10:30:00 AM 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 OF	GANICS				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

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 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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Project:

Lab ID:

Analytical Report Lab Order 2008699

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 10 Fed Com 2H 2RP

CLIENT: Safety & Environmental Solutions

2008699-004

Client Sample ID: H-6 Southwest Collection Date: 8/11/2020 10:45:00 AM 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 O	RGANICS				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

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 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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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2008699

Date Reported: 8/20/2020

8/15/2020 10:48:59 PM 54430

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 Result **RL Oual** Units **DF** Date Analyzed Batch Analyses **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 ORGANICS 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 8/17/2020 4:26:17 PM 30.4-154 %Rec 1 54431 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/15/2020 10:48:59 PM 54430 Gasoline Range Organics (GRO) ND 47 mg/Kg 1 Surr: BFB 95.9 75.3-105 %Rec 8/15/2020 10:48:59 PM 54430 1 Analyst: NSB **EPA METHOD 8021B: VOLATILES** Benzene ND 8/15/2020 10:48:59 PM 54430 0.024 mg/Kg 1 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 8/15/2020 10:48:59 PM 54430 1

100

80-120

%Rec

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Р
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/20/2020

8/15/2020 11:12:20 PM 54430

8/15/2020 11:12:20 PM 54430

8/15/2020 11:12:20 PM 54430

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solut Project: Devon Cotton Draw 10 Fed C			ient Sample II Collection Dat		8 East 11/2020 11:25:00 AM	
Lab ID: 2008699-006	Matrix: SOIL		Received Dat	e: 8/1	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 RANG	BE ORGANICS				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 RAN	GE				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

ND

ND

101

0.050

0.099

80-120

mg/Kg

mg/Kg

%Rec

1

1

1

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

Qualifiers:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * 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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Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2008699-007

Analytical Report Lab Order 2008699

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 10 Fed Com 2H 2RP

Client Sample ID: H-9 Northeast Collection Date: 8/11/2020 11:55:00 AM 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 O	RGANICS				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

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 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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Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2008699-008

Analytical Report Lab Order 2008699

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 10 Fed Com 2H 2RP

Client Sample ID: H-10 Northwest Collection Date: 8/11/2020 12:15:00 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	79	60	mg/Kg	20	8/18/2020 4:53:59 PM	54499
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				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

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 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 12

L.		tal Analysis Labora	atory, Inc.			WO#:	2008699 20-Aug-20
Client: Project:	•	& Environmental Solutions Cotton Draw 10 Fed Com 2	H 2RP-5378				
Sample ID: MB-	54499	SampType: mblk	TestCode: EPA Meth	nod 300.0: Anions	;		
Client ID: PBS		Batch ID: 54499	RunNo: 71154				
Prep Date: 8/1	3/2020	Analysis Date: 8/18/2020	SeqNo: 2481784	Units: mg/Kg	9		
Analyte		Result PQL SPK val	ue SPK Ref Val %REC LowLi	mit HighLimit	%RPD	RPDLimit	Qual

Chloride	ND	1.5								
Sample ID: LCS-54499	SampT	mpType: Ics TestCode: EPA Method 3					300.0: Anion	s		
Client ID: LCSS	Batch	ID: 544	499	F	RunNo: 7	1154				
Prep Date: 8/18/2020	Analysis D	ate: 8 /	18/2020	S	SeqNo: 2	481785	Units: mg/K	g		
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: Safety &	z Environm	ental Sc	olutions							
Project: Devon (Cotton Drav	v 10 Fee	1 Com 2H 2	2RP-5378						
9										
Sample ID: MB-54431 SampType: MBLK				Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batcl	h ID: 54	431	F	RunNo: 7	1115				
Prep Date: 8/14/2020	Analysis D)ate: 8 /	17/2020	S	eqNo: 24	478838	Units: mg/K	g		
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	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	h ID: 54	431	F	RunNo: 7	1115				
Prep Date: 8/14/2020	Analysis D	Date: 8 /	17/2020	S	eqNo: 24	479491	Units: mg/K	g		
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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2008699

20-Aug-20

•	& Environmental Solutions Cotton Draw 10 Fed Com 2H 2	PRP_5378	
0			
Sample ID: mb-54430	SampType: MBLK	TestCode: EPA Method 8015	D: Gasoline Range
Client ID: PBS	Batch ID: 54430	RunNo: 71111	
Prep Date: 8/14/2020	Analysis Date: 8/15/2020	SeqNo: 2478539 Units	s: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	hLimit %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 8015	D: Gasoline Range
Client ID: LCSS	Batch ID: 54430	RunNo: 71111	
Prep Date: 8/14/2020	Analysis Date: 8/15/2020	SeqNo: 2478540 Units	s: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	hLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	22 5.0 25.00	0 89.8 72.5	106
Surr: BFB	1100 1000	111 75.3	105 S
Sample ID: mb-54437	SampType: MBLK	TestCode: EPA Method 8015	D: Gasoline Range
Client ID: PBS	Batch ID: 54437	RunNo: 71136	
Prep Date: 8/15/2020	Analysis Date: 8/17/2020	SeqNo: 2480048 Units	Si %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	hLimit %RPD RPDLimit Qual
Surr: BFB	1000 1000	104 75.3	105
Sample ID: Ics-54437	SampType: LCS	TestCode: EPA Method 8015	D: Gasoline Range
Client ID: LCSS	Batch ID: 54437	RunNo: 71136	
Prep Date: 8/15/2020	Analysis Date: 8/17/2020	SeqNo: 2480049 Units	S: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	hLimit %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 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

2008699

20-Aug-20

Client: Project:	•	z Environm Cotton Drav			2RP-5378						
Sample ID:	mb-54430	Samp	ype: ME	3LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batc	h ID: 54	430	F	RunNo: 7	1111				
Prep Date:	8/14/2020	Analysis [Date: 8 /	15/2020	ę	SeqNo: 24	478583	Units: mg/K	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025			,011E0	Lowelling	- iigiiziinit			Quui
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
•	ofluorobenzene	1.0	0.10	1.000		104	80	120			
Sample ID:	LCS-54430	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: 54	430	F	RunNo: 7	1111				
Prep Date:	8/14/2020	Analysis [Date: 8 /	15/2020	S	SeqNo: 24	478584	Units: mg/K	g		
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-Brom	ofluorobenzene	1.1		1.000		106	80	120			
Sample ID:	mb-54437	Samp	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batc	h ID: 544	437	F	RunNo: 7	1136				
Prep Date:	8/15/2020	Analysis [Date: 8 /	17/2020	S	SeqNo: 24	480091	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.1		1.000		107	80	120			
Sample ID:	LCS-54437	Samp	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: 54	437	F	RunNo: 7	1136				
Prep Date:	8/15/2020	Analysis [Date: 8 /	17/2020	S	SeqNo: 24	480092	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	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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2008699

20-Aug-20

•

HALL ENVIRONMENTAL ANALYSIS LABORATORY	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:	200	3699			RcptNo:	1		
Received By: Emily Mocho	8/13/2020 8:00:00 AM								
Completed By: Michelle Garcia	8/13/2020 9:10:55 AM			min	u G	arue			
Reviewed By:	\$113/22				•				
Chain of Custody									
1. Is Chain of Custody complete?		Yes		No		Not Present			
2. How was the sample delivered?		<u>Cou</u>	rier						
Log In 3. Was an attempt made to cool the samples?		Yes	✓	No		NA 🗌			
4. Were all samples received at a temperature (of >0° C to 6.0°C	Yes		No					
5. Sample(s) in proper container(s)?		Yes		No					
6. Sufficient sample volume for indicated test(s)	?	Yes	\checkmark	No					
7. Are samples (except VOA and ONG) properly	rpreserved?	Yes		No [
8. Was preservative added to bottles?		Yes		No	✓	NA 🗌			
9. Received at least 1 vial with headspace <1/4	for AQ VOA?	Yes		No [NA 🗹			
 Were any sample containers received broker 	1?	Yes		No		# of preserved			
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes	V	No		bottles checked for pH:	>12 unless noted		
2. Are matrices correctly identified on Chain of C	Custody?	Yes	✓	No [Adjusted?			
3. Is it clear what analyses were requested?		Yes	\checkmark	No			New SIRI		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No		Checked by:	Wa dia		
pecial Handling (if applicable)									
15. Was client notified of all discrepancies with t	nis order?	Yes		No		NA 🗹			
Person Notified:	Date:								
By Whom:	Via:	eM	ail 🗌 Pho	one 📋	Fax	In Person			
Regarding:									
Client Instructions:			********			······································			
16. Additional remarks:									
17. <u>Cooler Information</u>									
	al Intact Seal No S	eal D	ate S	igned B	y				
1 3.8 Good Yes		naho nikolo nii	ene ve në v i kitë të përdikë (1779di).						

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analvsis Request	soprien				Page 88 of 11.
 HALL ENVIRON HALL ENVIRON ANALYSIS LABC ANALYSIS Request 	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals RCRA 8 Metals				Remarks: Bill Dever
Turn-Around Time: E Standard Rush Project Name: Peulon ZN Cun ZN Project # Project #	Project Manager: Sampler: <i>Policy Stampler: Policy Stampler: Policy Stampler: Policy Stampler: Policy Stampler: Policy Stampler: State Sta</i>	C/2001	COU		Time: Relinedustified by: Received by: Main: Date Time Remarks: 000 000 000 000 000 000 000 000 1me: Relined(s) and by: 000 010 010 010 000 010 1me: Relined(s) and by: 000 010 010 010 010 010 1me: Relined(s) and by: 000 010 010 010 010 010 1me: Relined(s) and by: 000 000 010 000 010 000 1me: Relined(s) and by: 000 000 000 000 000 000 1me: Relined(s) and by: 000 000 000 000 000 000 1me: Relined(s) and by: 000 000 000 000 000 000 1me: Relined(s) and by: 000 000 000 000 000 000 1me: Relined(s) Relined(s) Relined(s) Relined(s) Relined(s) Relined(s
Chain-of-Custody Record Client: Such & Muhan Mailing Address: 702 C. Olivran Phone # 575 297.0510 Phone # 575 297.0510	Type)	10455 5 443 2.577 1010 5 144 4 347	1045 5 H-5 WC57 1045 5 H-6 Sweetweet 1155 5 H-7 Swith 1155 5 H-8 SANT	1/2 S H-10 m 2 2 11/80	Date Time: Relineduished by: Date: Time: Relineduished by: Date: Time: Relineduished by: Pate: Time: Relineduished by: Pate: Time: Relineduished by: Pate: Time: Relineduished by:



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 Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109 **Project:**

Lab ID:

Analyses

Analytical Report Lab Order 2008698

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-1 3ft Devon Cotton Draw 10 Fed Com 2H 2RP Collection Date: 8/11/2020 12:50:00 PM 2008698-001 Matrix: SOIL Received Date: 8/13/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 20 8/18/2020 12:45:47 PM 54499 ND 60 ma/Ka R 115 115 Ρ

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
EPA METHOD 8260B: VOLATILES SHORT LIST Benzene	ND	0.024	mg/Kg	1	Analyst: 8/16/2020 1:08:46 PM	JMR 54415
	ND ND	0.024 0.049	mg/Kg mg/Kg	1 1	2	
Benzene			0 0	1 1 1	8/16/2020 1:08:46 PM	54415
Benzene Toluene	ND	0.049	mg/Kg	1 1 1 1	8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM	54415 54415
Benzene Toluene Ethylbenzene	ND ND	0.049 0.049	mg/Kg mg/Kg	1 1 1 1	8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM	54415 54415 54415
Benzene Toluene Ethylbenzene Xylenes, Total	ND ND ND	0.049 0.049 0.097	mg/Kg mg/Kg mg/Kg	1 1	8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM	54415 54415 54415 54415
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	ND ND ND 93.4	0.049 0.049 0.097 70-130	mg/Kg mg/Kg mg/Kg %Rec	1 1	8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM	54415 54415 54415 54415 54415
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	ND ND ND 93.4 100	0.049 0.049 0.097 70-130 70-130	mg/Kg mg/Kg mg/Kg %Rec %Rec	1 1 1 1	8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM 8/16/2020 1:08:46 PM	54415 54415 54415 54415 54415 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р 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: AH-2 2.5ft Collection Date: 8/11/2020 1:20:00 PM **Project:** Devon Cotton Draw 10 Fed Com 2H 2RP Lab ID: 2008698-002 Matrix: SOIL Received Date: 8/13/2020 8:00:00 AM Result **RL Oual** Units **DF** Date Analyzed Analyses 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 8/16/2020 8:17:38 PM 70-130 %Rec 1 54415 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 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 8/17/2020 12:02:44 PM 54431 47 mg/Kg 1 Surr: DNOP 96.0 30.4-154 %Rec 8/17/2020 12:02:44 PM 54431 1 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 8/16/2020 8:17:38 PM 54415 Benzene 0.023 mg/Kg 1 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 8/16/2020 8:17:38 PM 54415 1 Surr: 1,2-Dichloroethane-d4 94.3 70-130 %Rec 1 8/16/2020 8:17:38 PM 54415 Surr: 4-Bromofluorobenzene 70-130 100 %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 Client Sample ID: H-5 North **Project:** Devon Cotton Draw 10 Fed Com 2H 2RP Collection Date: 8/11/2020 1:40:00 PM Lab ID: 2008698-003 Matrix: SOIL Received Date: 8/13/2020 8:00:00 AM Result **RL Oual** Units **DF** Date Analyzed Analyses 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 8/16/2020 8:46:08 PM 70-130 %Rec 1 54415 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 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 8/17/2020 12:26:40 PM 54431 48 mg/Kg 1 Surr: DNOP 104 30.4-154 %Rec 1 8/17/2020 12:26:40 PM 54431 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 8/16/2020 8:46:08 PM 54415 Benzene 0.024 mg/Kg 1 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 8/16/2020 8:46:08 PM 54415 1 Surr: 1,2-Dichloroethane-d4 94.1 70-130 %Rec 1 8/16/2020 8:46:08 PM 54415 Surr: 4-Bromofluorobenzene 70-130 101 %Rec 1 8/16/2020 8:46:08 PM 54415 8/16/2020 8:46:08 PM Surr: Dibromofluoromethane 105 70-130 %Rec 1 54415 Surr: Toluene-d8 93.0 70-130 %Rec 1 8/16/2020 8:46:08 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 limitsP Sample pH Not In Range
- P Sample pH Not In
- 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 Collection Date: 8/11/2020 1:50:00 PM **Project:** Devon Cotton Draw 10 Fed Com 2H 2RP Lab ID: 2008698-004 Matrix: SOIL Received Date: 8/13/2020 8:00:00 AM Result **RL Oual** Units **DF** Date Analyzed Analyses 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** Analyst: JMR Gasoline Range Organics (GRO) ND 4.7 mg/Kg 1 8/16/2020 9:14:37 PM 54415 Surr: BFB 8/16/2020 9:14:37 PM 104 70-130 %Rec 1 54415 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 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 8/17/2020 12:50:39 PM 54431 49 mg/Kg 1 Surr: DNOP 103 30.4-154 %Rec 8/17/2020 12:50:39 PM 54431 1 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 8/16/2020 9:14:37 PM 54415 Benzene 0.023 mg/Kg 1 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 8/16/2020 9:14:37 PM 54415 1 Surr: 1,2-Dichloroethane-d4 92.9 70-130 %Rec 1 8/16/2020 9:14:37 PM 54415 Surr: 4-Bromofluorobenzene 70-130 100 %Rec 1 8/16/2020 9:14:37 PM 54415 8/16/2020 9:14:37 PM Surr: Dibromofluoromethane 108 70-130 %Rec 1 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 Result **RL Oual** Units **DF** Date Analyzed Analyses 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 8/16/2020 9:43:03 PM 110 70-130 %Rec 1 54415 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 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 1 8/17/2020 1:14:39 PM 54431 48 mg/Kg Surr: DNOP 108 30.4-154 %Rec 1 8/17/2020 1:14:39 PM 54431 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 8/16/2020 9:43:03 PM 54415 Benzene 0.024 mg/Kg 1 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 8/16/2020 9:43:03 PM 54415 1 Surr: 1,2-Dichloroethane-d4 91.9 70-130 %Rec 1 8/16/2020 9:43:03 PM 54415 Surr: 4-Bromofluorobenzene 70-130 99.7 %Rec 1 8/16/2020 9:43:03 PM 54415 104 8/16/2020 9:43:03 PM Surr: Dibromofluoromethane 70-130 %Rec 1 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 limitsP Sample pH Not In Range
- RL Reporting Limit

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Project:

Lab ID:

CLIENT: Safety & Environmental Solutions

2008698-006

Analytical Report Lab Order 2008698

Date Reported: 8/20/2020

Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 10 Fed Com 2H 2RP

Client Sample ID: H-8 South2H 2RPCollection Date: 8/11/2020 2:20:00 PMMatrix: SOILReceived 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

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Date Reported: 8/20/2020

8/15/2020 8:05:08 PM

54430

54430

54430

54430

54430

Hall Environmental Analysis Laboratory, Inc.

						-	
CLIENT:	Safety & Environmental Sol	utions	Cl	ient Sample II	D: H-	9 East	
Project:	Devon Cotton Draw 10 Fed	Com 2H 2RP	(Collection Dat	e: 8/	11/2020 2:30:00 PM	
Lab ID:	2008698-007	Matrix: SOIL		13/2020 8:00:00 AM			
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS					Analyst	MRA
Chloride		89	60	mg/Kg	20	8/18/2020 2:49:54 PM	54499
EPA MET	THOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst	CLP
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	8/17/2020 8:26:29 PM	54431
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2020 8:26:29 PM	54431
Surr: I	DNOP	106	30.4-154	%Rec	1	8/17/2020 8:26:29 PM	54431
EPA MET	THOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2020 8:05:08 PM	54430
Surr: I	BFB	102	75.3-105	%Rec	1	8/15/2020 8:05:08 PM	54430
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB

ND

ND

ND

ND

107

0.024

0.049

0.049

0.097

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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	y & Environmental Solutions n Cotton Draw 10 Fed Com					
Sample ID: MB-54499	SampType: mblk	Test	Code: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID: 54499	R	unNo: 71154			
Prep Date: 8/18/2020	Analysis Date: 8/18/2020	S	eqNo: 2481784	Units: mg/Kg		
Analyte	Result PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual
Chloride	ND 1.5					
Sample ID: LCS-54499	SampType: Ics	Test	Code: EPA Method	300.0: Anions		
Client ID: LCSS	Batch ID: 54499	R	unNo: 71154			
Prep Date: 8/18/2020	Analysis Date: 8/18/2020	S	eqNo: 2481785	Units: mg/Kg		
Analyte	Result PQL SPK v	alue SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual
Chloride	14 1.5 1	5.00 0	94.8 90	110		

Qualifiers:

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2008698

20-Aug-20

Client: Safety &	Environmer	ntal So	lutions							
Project: Devon Co	otton Draw	10 Fed	Com 2H 2	2RP-4804						
Sample ID: MB-54431	SampTy	pe: ME	BLK	Test	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch I	ID: 54 4	431	R	unNo: 7	1115				
Prep Date: 8/14/2020	Analysis Da	te: 8 /	17/2020	S	eqNo: 24	478838	Units: mg/K	g		
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	SampTy	pe: LC	s	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch I	ID: 54 4	431	R	unNo: 7	1115				
Prep Date: 8/14/2020	Analysis Da	te: 8/	17/2020	S	eqNo: 24	479491	Units: mg/K	g		
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			
Sample ID: 2008698-001AMS	SampTy	pe: MS	;	Test	Code: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: AH-1 3ft	Batch I	ID: 54 4	431	R	unNo: 7	1115				
Prep Date: 8/14/2020	Analysis Da	te: 8/	17/2020	S	eqNo: 24	479502	Units: mg/K	g		
Analyte	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: 2008698-001AMSI	D SampTy	pe: MS	D	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: AH-1 3ft	Batch I	ID: 544	431	R	unNo: 7	1115				
Prep Date: 8/14/2020	Analysis Da	te: 8 /	17/2020	S	eqNo: 24	479503	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.5	47.71	0	101	47.4	136	5.11	43.4	
Surr: DNOP	4.5		4.771		94.0	30.4	154	0	0	

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

2008698

20-Aug-20

Client: Project:	•	Environme otton Draw		olutions l Com 2H 2	2RP-4804						
Sample ID: mb	o-54430	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	9	
Client ID: PB	s	Batch	ID: 54	430	F	RunNo: 7	1111				
Prep Date: 8	/14/2020	Analysis Da	ate: 8 /	15/2020	S	SeqNo: 24	478539	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	ND	5.0	OF IX Value		/irrec	LOWLINI	riigiiLiitiit			Quai
Surr: BFB		1000		1000		100	75.3	105			
Sample ID: Ics	s-54430	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	9	
Client ID: LC	SS	Batch	ID: 544	430	F	RunNo: 7	1111				
Prep Date: 8	/14/2020	Analysis Da	ate: 8 /	15/2020	5	SeqNo: 24	478540	Units: mg/Kg	I		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	22	5.0	25.00	0	89.8	72.5	106			
Surr: BFB		1100		1000		111	75.3	105			S
Sample ID: 20	08698-007ams	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID: H-9	9 East	Batch	ID: 54	430	F	RunNo: 7	1111				
Prep Date: 8	/14/2020	Analysis Da	ate: 8 /	15/2020	S	SeqNo: 24	478543	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	23	4.6	23.06	0	98.2	61.3	114			
Surr: BFB		1000		922.5		112	75.3	105			S
Sample ID: 20	08698-007amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID: H-9	9 East	Batch	ID: 54	430	F	RunNo: 7	1111				
Prep Date: 8	/14/2020	Analysis Da	ate: 8 /	15/2020	S	GeqNo: 24	478544	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (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	o-54437	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PB	s	Batch	ID: 54	437	F	RunNo: 7	1136				
Prep Date: 8	/15/2020	Analysis Da	ate: 8 /	17/2020	5	SeqNo: 24	480048	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	5-54437	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Rang	e	
Client ID: LC	SS	Batch	ID: 54	437	F	RunNo: 7	1136		-		
Prep Date: 8		Analysis D				SeqNo: 24		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 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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2008698

20-Aug-20

•	Environm otton Drav		olutions l Com 2H 2	2RP-4804						
Sample ID: mb-54430	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 54	430	F	RunNo: 7	1111				
Prep Date: 8/14/2020	Analysis [Date: 8 /	15/2020	S	SeqNo: 24	478583	Units: mg/k	ζg		
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	Samp	Туре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 54	430	F	RunNo: 7'	1111				
Prep Date: 8/14/2020	Analysis [Date: 8 /	15/2020	S	SeqNo: 24	478584	Units: mg/K	٢g		
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: 2008698-006ams	Samp	Туре: МS	6	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: H-8 South	Batc	h ID: 54	430	F	RunNo: 7'	1111				
Prep Date: 8/14/2020	Analysis [Date: 8 /	15/2020	S	GeqNo: 24	478586	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9862	0	96.8	76.3	120			
Toluene	0.99	0.049	0.9862	0.01096	99.0	78.5	120			
Ethylbenzene	1.0	0.049	0.9862	0.01192	100	78.1	124			
Xylenes, Total	3.0	0.099	2.959	0.02904	101	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9862		105	80	120			
Sample ID: 2008698-006amso	d Samp	Туре: МS	SD	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: H-8 South	Batc	h ID: 54	430	F	RunNo: 7'	1111				
Prep Date: 8/14/2020	Analysis [Date: 8/	15/2020	5	SeqNo: 24	478587	Units: mg/k	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9833	0	95.3	76.3	120	1.87	20	
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	
Surr: 4-Bromofluorobenzene	1.1		0.9833		107	80	120	0	0	

Qualifiers:

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•	& Environmental Solutions Cotton Draw 10 Fed Com 2H 2	RP-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:

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- B Analyte detected in the associated Method Blank
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- RL Reporting Limit

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	Safety & Enviro Devon Cotton D			2RP-4804						
Sample ID: mb-544	Tes	tCode: El	PA Method	8260B: Volat	iles Short	t List				
Client ID: PBS	В	atch ID: 54	4415	F	RunNo: 7	1105				
Prep Date: 8/13/20	020 Analys	Analysis Date: 8/15/2020 SeqNo: 2478157 U			Units: mg/Kg					
Analyte	Resu	lt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	N	D 0.025	5							
Toluene	N	D 0.050)							
Ethylbenzene	N	D 0.050)							
Xylenes, Total	N	D 0.10)							
Surr: 1,2-Dichloroethan	e-d4 0.4	6	0.5000		92.9	70	130			
Surr: 4-Bromofluorober	izene 0.4	9	0.5000		98.7	70	130			
Surr: Dibromofluoromet	hane 0.5	3	0.5000		107	70	130			
Surr: Toluene-d8	0.4	8	0.5000		95.1	70	130			
Sample ID: Ics-544	I5 Sa	npType: L	CS4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQ	с в	atch ID: 54	4415	F	RunNo: 7	1105				
Prep Date: 8/13/20	020 Analys	is Date: 8	8/15/2020	5	SeqNo: 24	478158	Units: mg/K	íg		
Analyte	Resu	lt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.	0 0.025	5 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-Dichloroethan	e-d4 0.4	7	0.5000		94.8	70	130			
Surr: 4-Bromofluorober	izene 0.4	9	0.5000		97.8	70	130			
Surr: Dibromofluoromet	hane 0.5	2	0.5000		103	70	130			
Surr: Toluene-d8	0.4	6	0.5000		92.1	70	130			

Qualifiers:

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- P Sample pH Not In Range
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,	z Environme Cotton Draw			2RP-4804						
Sample ID: mb-54415	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range				
Client ID: PBS Batch ID: 54415			F	RunNo: 7	1105					
Prep Date: 8/13/2020	Analysis D	0ate: 8 /	15/2020	S	eqNo: 24	478196	Units: mg/K	g		
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	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	n ID: 54	415	F	RunNo: 7	1105				
Prep Date: 8/13/2020	Analysis D)ate: 8 /	15/2020	S	eqNo: 24	478197	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	70	130			
Surr: BFB	540		500.0		107	70	130			

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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- P Sample pH Not In Range
- RL Reporting Limit

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	RONMENTAL YSIS Ratory	Alba TEL: 505-345-3975 Website: clients.ha		⁸⁷¹⁰⁹ San -4107	nple Log-In C	heck List
Client Name:	Safety & Environmental Solutions	Work Order Number:	2008698		RcptNo:	1
Received By:	Emily Mocho	8/13/2020 8:00:00 AM				
Completed By: Reviewed By:	Michelle Garcia	8/13/2020 8:58:30 AM 8/13/20		Minute G	pruie)	
<u>Chain of Cus</u>	tody					
1. Is Chain of C	ustody complete?		Yes 🗸	No	Not Present	
2. How was the	sample delivered?		Courier			
Log In 3. Was an atterr	npt made to cool the sample	\$?	Yes 🔽	No 🗌	NA \Box	
4. Were all samp	ples received at a temperatu	re of ≻0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
5. Sample(s) in j	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sam	ple volume for indicated test	(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) prop	erly 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 bro	ken?	Yes 🗌	No 🔽	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:	12 unless noted)
12. Are matrices o	correctly identified on Chain of	•	Yes 🗹	No 🗌	Adjusted?	
	t analyses were requested?		Yes 🗹	No 🗌		me 8/13/0
	ng times able to be met? ustomer for authorization.)		Yes 🗹	No	Checked by	
Special Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date:				
By Who	om:	Via:	eMail 🗌 F	Phone 🔲 Fax	In Person	
Regardi	ing:					
Client In	nstructions:					
16. Additional rer	marks:	-				'
17. <u>Cooler Infor</u>	mation					
Cooler No	Temp ^o C Condition 3.8 Good Y	Seal Intact Seal No S	eal Date	Signed By		

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<i>Received by OCD: 11/16/2022</i>	2:10:24 PM	Page 105 of 111
Hall ENVIRONMENTAL Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Image: Sector of the sector	Time: Relinquished by. Received by Via: Mate Time Remarks: OBO M M Via: Bate Time Remarks: OBO M Via: Bate Time Remarks: OBO M Via: Bate Time Time: Relinquished by: M Via: Bate Time: Relinquished by: M Via: Sroib finate Sroib Sroib Sroib N
Turn-Around Time: Sauf Destandard Rush Project Name: Deven Contect Name: Deven Project #: Project #:	Project Manager:	Received by Via: Plate Time Re Received by Via: Share Time Re Received by Via: Share Date Time そんか しんレイアセイ 8/13/20 8:00
Chain-of-Custody Record Client: Subury For Unon Muth Solution Muth Mailing Address: 703 & C/WM	email or Fax#: odvOc Package: If Standard	Date Time: Relinquished by. Date: Time: Relinquished by. Date: Time: Relinquished by: MD a fine: Relinquished by: frecessary, sample/submitted to Hall Environmental may be sub

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









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









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









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Oil Conservation Division

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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.

<u>Closure Report Attachment Checklist</u> : Each of the following in	tems 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	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	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 nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: <u>11/16/2022</u>
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:	

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Oil Conservation Division

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0.1							

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.

<u>Closure Report Attachment Checklist</u> : Each of the following i	tems 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	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 certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or 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 co accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale 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:

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

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

District III

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

District IV

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

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

CONDITIONS

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

Created By	Condition	Condition Date
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