Page 6

Oil Conservation Division

Incident ID	NMLB1204437755
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.

<b><u>Closure Report Attachment Checklist</u>: Each of the following in</b>	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 should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the con 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 CD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Environmental Professional
Printed Name: Dale Woodall Signature: Dale Woodall	Title: Environmental Professional Date: 11/1/2022 Telephone: 575-748-1838
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Ashley Martwell</u> Printed Name: Ashley Maxwell	Date: 2/03/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist

# Devon Energy Production Company Cotton Draw Unit #156H

# Closure Report UL A, Section 35, T24S, R31E Eddy County, New Mexico

NMLB1204437755

July 22, 2021



Prepared for:

Devon Energy Production Company 6488 Seven Rivers Hwy Artesia, New Mexico 88211

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240

#### **Company Contacts**

Representative	Company	Telephone	E-mail
Wesley Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

#### Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the Cotton Draw Unit #156H. According to the C-141, an approximate 20 bbls of fluid was released, 16 bbls oil, 4 bbls of produced water. It was determined that the release was a result of a knick in the flowline to the West of the pad. Vacuum truck was called, and fluid was recovered. This site is situated in Eddy County, Section 35, Township 24S, and Range 31E.

SESI personnel performed an assessment of the site in August of 2020 based on generator knowledge of the leak location. SESI personnel mapped the leak and performed delineation.

#### Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water is not present within 3,000 feet of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be unknown; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

#### Characterization

In August of 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced multiple auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy CDU # 156H Soil Sample Results: Hall Environmental Laboratories 8/25/20												
SAMPLE ID Chloride GRO DRO MRO Benzene Toluene Ethyl benzene Total Xylenes												
H-1 South	ND	ND	ND	ND	ND	ND	ND	ND				
AH-2 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
H-3 West	ND	ND	ND	ND	ND	ND	ND	ND				
H-4 East	ND	ND	ND	ND	ND	ND	ND	ND				
AH-5 @ Surface	ND	ND	760	1200	ND	ND	ND	ND				
AH-5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND				
H-6 West	ND	ND	ND	ND	ND	ND	ND	ND				
H-7 East	ND	ND	ND	ND	ND	ND	ND	ND				
AH-8 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
H-9 West	ND	ND	ND	ND	ND	ND	ND	ND				

H-10 East	ND							
AH-11 @ Surface	ND							
H-12 West	ND							
H-13 East	ND							
AH-14 @ Surface	ND							
H-15 West	ND							
AH-16 @ Surface	ND							
H-17 Northwest	ND							
H-18 South	ND							
AH-19 @ Surface	ND							
H-20 North	ND							
H-21 South	ND							
H-22 East	ND							
H-23 North	ND							

#### Remediation

Based on the results of the delineation, SESI, determined the best course of action is to excavate the contaminated soil to a depth of 1 ft as practicable. In October of 2020, contaminated material was removed by excavating the affected area. Confirmation samples were taken to ensure remediation was successful and that the vertical and horizontal extent of the release area had been established. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The results of the sampling is captured in the table below.

Devon Energy CDU #156H Soil Sample Results: Hall Environmental Laboratories 10/21/20											
SAMPLE ID Chloride GRO DRO MRO Benzene Toluene Ethyl benzene Total Xylenes											
SP-24 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND			
SP-25 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND			
			Hori	zontal Ext	ent						
H-26 North	ND	ND	ND	ND	ND	ND	ND	ND			
H-27 East	ND	ND	ND	ND	ND	ND	ND	ND			
H-28 West	ND	ND	ND	ND	ND	ND	ND	ND			
H-29 South	ND	ND	ND	ND	ND	ND	ND	ND			
				•	•	•	•	•			

Once sample results verified both successful remediation and horizontal extent, the site was backfilled with clean soil. Pictures of the remediation are included in this report.

#### **Closure Request**

Based on the confirmation and horizontal sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of this release. Supplemental information has been included in this report to support our closure request.

#### **Supplemental Documentation for Closure**

Map of Release with sample locations Photos of release and remediation NMOCD Oil and Gas Map BLM Cave Karst Map Laboratory Analysis C-141



# OSE PUBLIC PRINT







Subsurface Estate

Both Estates

SiteBoundaries



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

Printed from Public Web Map Unofficial Map from OSE POD Locations Web Application

**Released to Imaging: 2/3/2023 11:27:42 AM** 

Received by OCD: 11/1/2022 1:30:08 PM

# **Devon Energy**

CDU #156H A-35-T24S-R31E Karst Map - Low NMLB1204437755



# 32.1804924, -103.7421951





Google Earth Released to Imaging: 2/3/2023 11:27:42 AM

1000 ft

# Devon Energy – CDU #156H Remediation & Backfill Photos









# Devon Energy – CDU #156H Remediation & Backfill Photos









**Released to Imaging: 2/3/2023 11:27:42 AM** 

# Devon Energy – CDU #156H Remediation & Backfill Photos











September 03, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX: (575) 393-4388

RE: Devon Cotton Draw 156H

OrderNo.: 2008E81

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 24 sample(s) on 8/27/2020 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

Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-1 South **Project:** Devon Cotton Draw 156H Collection Date: 8/24/2020 10:50:00 AM Lab ID: 2008E81-001 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 20 8/31/2020 11:15:42 PM 54828 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM mg/Kg **Diesel Range Organics (DRO)** ND 9.7 1 8/28/2020 11:20:53 PM 54745 Motor Oil Range Organics (MRO) ND 8/28/2020 11:20:53 PM 54745 49 mg/Kg 1 Surr: DNOP 38.3 8/28/2020 11:20:53 PM 54745 30.4-154 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 11:32:21 AM 54738 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 e/2e/2020 11:32:21 AM 54738 400 SB

Surr: BFB	102	75.3-105	%Rec	1	8/29/2020 11:32:21 AM 54738
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 11:32:21 AM 54738
Toluene	ND	0.048	mg/Kg	1	8/29/2020 11:32:21 AM 54738
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 11:32:21 AM 54738
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 11:32:21 AM 54738
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/29/2020 11:32:21 AM 54738

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 30

Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-002

Devon Cotton Draw 156H

Client Sample ID: AH-2 SurfaceCollection Date: 8/24/2020 11:05:00 AMMatrix: SOILReceived Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/31/2020 11:28:06 PM	54828
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/28/2020 11:30:54 PM	54745
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/28/2020 11:30:54 PM	54745
Surr: DNOP	68.0	30.4-154	%Rec	1	8/28/2020 11:30:54 PM	54745
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 11:56:02 AM	54738
Surr: BFB	96.6	75.3-105	%Rec	1	8/29/2020 11:56:02 AM	54738
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 11:56:02 AM	54738
Toluene	ND	0.048	mg/Kg	1	8/29/2020 11:56:02 AM	54738
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 11:56:02 AM	54738
Xylenes, Total	ND	0.095	mg/Kg	1	8/29/2020 11:56:02 AM	54738
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/29/2020 11:56:02 AM	54738

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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Lab ID:

**Analytical Report** Lab Order 2008E81

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/3/2020 **CLIENT:** Safety & Environmental Solutions Client Sample ID: H-3 West Devon Cotton Draw 156H Collection Date: 8/24/2020 11:30:00 AM 2008E81-003 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Analyses Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 20 8/31/2020 11:40:30 PM 54828 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 8/28/2020 11:40:59 PM 54745 Motor Oil Range Organics (MRO) ND 8/28/2020 11:40:59 PM 54745 47 mg/Kg 1 Surr: DNOP 66.1 30.4-154 %Rec 1 8/28/2020 11:40:59 PM 54745

Sull. DNOI	00.1	30.4-134	/01/00		0/20/2020 11.40.391 101 34/43	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 12:19:27 PM 54738	
Surr: BFB	102	75.3-105	%Rec	1	8/29/2020 12:19:27 PM 54738	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.024	mg/Kg	1	8/29/2020 12:19:27 PM 54738	
Toluene	ND	0.048	mg/Kg	1	8/29/2020 12:19:27 PM 54738	
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 12:19:27 PM 54738	
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 12:19:27 PM 54738	
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/29/2020 12:19:27 PM 54738	

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: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

	Ŭ,				1	
CLIENT: Safety & Environmental SoProject:Devon Cotton Draw 156HLab ID:2008E81-004	lutions Matrix: SOIL			<b>e:</b> 8/2	4 East 24/2020 11:55:00 AM 27/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	60	mg/Kg	20	8/31/2020 11:52:55 PM	54828
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/28/2020 11:50:59 PM	54745
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/28/2020 11:50:59 PM	54745
Surr: DNOP	74.1	30.4-154	%Rec	1	8/28/2020 11:50:59 PM	54745
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/29/2020 12:42:53 PM	54738
Surr: BFB	95.1	75.3-105	%Rec	1	8/29/2020 12:42:53 PM	54738
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	8/29/2020 12:42:53 PM	54738
Toluene	ND	0.046	mg/Kg	1	8/29/2020 12:42:53 PM	54738
Ethylbenzene	ND	0.046	mg/Kg	1	8/29/2020 12:42:53 PM	54738
Xylenes, Total	ND	0.093	mg/Kg	1	8/29/2020 12:42:53 PM	54738
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	8/29/2020 12:42:53 PM	54738

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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#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/3/2020 **CLIENT:** Safety & Environmental Solutions Client Sample ID: AH-5 Surface **Project:** Devon Cotton Draw 156H Collection Date: 8/24/2020 12:15:00 PM Lab ID: 2008E81-005 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/1/2020 5:51:07 PM 54828 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM **Diesel Range Organics (DRO)** 760 190 mg/Kg 20 8/29/2020 12:00:58 AM 54745 Motor Oil Range Organics (MRO) 1200 970 mg/Kg 20 8/29/2020 12:00:58 AM 54745 Surr: DNOP 8/29/2020 12:00:58 AM 54745 0 30.4-154 S %Rec 20 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 1:06:28 PM Gasoline Range Organics (GRO) ND 54738 4.8 mg/Kg 1 Surr: BFB 97.6 75.3-105 %Rec 8/29/2020 1:06:28 PM 54738 1 FPA METHOD 8021B: VOLATILES Analyst: NSB 4738

FAMETHOD WIZTD. VOLATILLS					Analyst.	NOD
Benzene	ND	0.024	mg/Kg	1	8/29/2020 1:06:28 PM	54738
Toluene	ND	0.048	mg/Kg	1	8/29/2020 1:06:28 PM	54738
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 1:06:28 PM	54738
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 1:06:28 PM	54738
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/29/2020 1:06:28 PM	54738

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: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: AH-5 1ft **Project:** Devon Cotton Draw 156H Collection Date: 8/24/2020 12:40:00 PM Lab ID: 2008E81-006 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/1/2020 10:11:58 AM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 8/29/2020 12:10:53 AM 54745 ND Motor Oil Range Organics (MRO) 47 mg/Kg 1 8/29/2020 12:10:53 AM 54745 Surr: DNOP 8/29/2020 12:10:53 AM 54745 75.6 30.4-154 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 3:27:54 PM Gasoline Range Organics (GRO) ND 54741 4.9 mg/Kg 1 Surr: BFB 96.5 75.3-105 %Rec 8/29/2020 3:27:54 PM 54741 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/29/2020 3:27:54 PM 54741 Benzene 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/29/2020 3:27:54 PM 54741 Ethylbenzene ND 0.049 mg/Kg 1 8/29/2020 3:27:54 PM 54741 Xylenes, Total ND 0.099 mg/Kg 8/29/2020 3:27:54 PM 54741 1 Surr: 4-Bromofluorobenzene 8/29/2020 3:27:54 PM 103 80-120 %Rec 1 54741

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: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solution	s	Cl	ient Sample I	<b>D:</b> H-	6 West				
Project: Devon Cotton Draw 156H	Collection Date: 8/24/2020 1:10:00 PM								
Lab ID: 2008E81-007	Matrix: SOIL		Received Dat	t <b>e:</b> 8/2	27/2020 8:00:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: CJS			
Chloride	ND	60	mg/Kg	20	9/1/2020 10:49:13 AM	54839			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/29/2020 12:20:49 AM	54745			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/29/2020 12:20:49 AM	54745			
Surr: DNOP	73.2	30.4-154	%Rec	1	8/29/2020 12:20:49 AM	54745			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 4:38:42 PM	54741			
Surr: BFB	102	75.3-105	%Rec	1	8/29/2020 4:38:42 PM	54741			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.024	mg/Kg	1	8/29/2020 4:38:42 PM	54741			
Toluene	ND	0.048	mg/Kg	1	8/29/2020 4:38:42 PM	54741			
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 4:38:42 PM	54741			
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 4:38:42 PM	54741			
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/29/2020 4:38:42 PM	54741			

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: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solution	s	Cl	ient Sample I	<b>D:</b> H-	7 East	
Project: Devon Cotton Draw 156H		(	Collection Dat	te: 8/2	24/2020 1:35:00 PM	
Lab ID: 2008E81-008	Matrix: SOIL		Received Dat	t <b>e:</b> 8/2	27/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 11:26:26 AM	54839
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/29/2020 12:30:49 AN	54745
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/29/2020 12:30:49 AN	54745
Surr: DNOP	73.8	30.4-154	%Rec	1	8/29/2020 12:30:49 AM	1 54745
EPA METHOD 8015D: GASOLINE RANGE					Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/29/2020 5:49:23 PM	54741
Surr: BFB	99.4	75.3-105	%Rec	1	8/29/2020 5:49:23 PM	54741
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.025	mg/Kg	1	8/29/2020 5:49:23 PM	54741
Toluene	ND	0.049	mg/Kg	1	8/29/2020 5:49:23 PM	54741
Ethylbenzene	ND	0.049	mg/Kg	1	8/29/2020 5:49:23 PM	54741
Xylenes, Total	ND	0.098	mg/Kg	1	8/29/2020 5:49:23 PM	54741
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/29/2020 5:49:23 PM	54741

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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Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-009

Devon Cotton Draw 156H

Client Sample ID: AH-8 Surface Collection Date: 8/24/2020 1:50:00 PM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 12:03:40 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/29/2020 12:40:44 AM	54745
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2020 12:40:44 AM	54745
Surr: DNOP	56.3	30.4-154	%Rec	1	8/29/2020 12:40:44 AM	54745
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 6:13:00 PM	54741
Surr: BFB	98.2	75.3-105	%Rec	1	8/29/2020 6:13:00 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 6:13:00 PM	54741
Toluene	ND	0.048	mg/Kg	1	8/29/2020 6:13:00 PM	54741
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 6:13:00 PM	54741
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 6:13:00 PM	54741
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/29/2020 6:13:00 PM	54741

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 2008E81

Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-9 West **Project:** Devon Cotton Draw 156H Collection Date: 8/24/2020 2:10:00 PM Lab ID: 2008E81-010 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses Analyst: CJS **EPA METHOD 300.0: ANIONS** Chloride ND 60 mg/Kg 20 9/1/2020 12:16:04 PM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 8/29/2020 12:50:39 AM 54745 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/29/2020 12:50:39 AM 54745 Surr: DNOP 8/29/2020 12:50:39 AM 54745 57.5 30.4-154 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 6:36:38 PM Gasoline Range Organics (GRO) ND 54741 4.8 mg/Kg 1 Surr: BFB 102 75.3-105 %Rec 8/29/2020 6:36:38 PM 54741 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/29/2020 6:36:38 PM 54741 Benzene 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/29/2020 6:36:38 PM 54741 Ethylbenzene ND 0.048 mg/Kg 1 8/29/2020 6:36:38 PM 54741 Xylenes, Total ND 0.095 mg/Kg 8/29/2020 6:36:38 PM 54741 1

104

80-120

%Rec

1

8/29/2020 6:36:38 PM

54741

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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Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

**Analytical Report** Lab Order 2008E81

Date Reported: 9/3/2020

8/29/2020 7:00:08 PM

54741

54741

54741

54741

54741

54741

Analyst: NSB

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solution	18	Client Sample ID: H-10 East						
Project: Devon Cotton Draw 156H		(	Collection Dat	e: 8/2	25/2020 9:30:00 AM			
Lab ID: 2008E81-011	Matrix: SOIL		<b>Received Dat</b>	e: 8/2	27/2020 8:00:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CJS		
Chloride	ND	60	mg/Kg	20	9/1/2020 12:28:28 PM	54839		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/29/2020 1:00:32 AM	54745		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/29/2020 1:00:32 AM	54745		
Surr: DNOP	59.7	30.4-154	%Rec	1	8/29/2020 1:00:32 AM	54745		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/29/2020 7:00:08 PM	54741		

101

ND

ND

ND

ND

105

75.3-105

0.023

0.046

0.046

0.093

80-120

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

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

- 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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Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-012

Devon Cotton Draw 156H

Client Sample ID: AH-11 Surface Collection Date: 8/25/2020 9:55:00 AM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 12:40:53 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/29/2020 1:10:28 AM	54745
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/29/2020 1:10:28 AM	54745
Surr: DNOP	56.2	30.4-154	%Rec	1	8/29/2020 1:10:28 AM	54745
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/29/2020 7:23:37 PM	54741
Surr: BFB	102	75.3-105	%Rec	1	8/29/2020 7:23:37 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	8/29/2020 7:23:37 PM	54741
Toluene	ND	0.046	mg/Kg	1	8/29/2020 7:23:37 PM	54741
Ethylbenzene	ND	0.046	mg/Kg	1	8/29/2020 7:23:37 PM	54741
Xylenes, Total	ND	0.093	mg/Kg	1	8/29/2020 7:23:37 PM	54741
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/29/2020 7:23:37 PM	54741

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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Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

						-	
CLIENT:	Safety & Environmental Solut	ions	Cl	ient Sample II	D: H-	12 West	
Project:	Devon Cotton Draw 156H		(	Collection Dat	<b>e:</b> 8/2	25/2020 10:15:00 AM	
Lab ID:	2008E81-013	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 8/2	27/2020 8:00:00 AM	
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	CJS
Chloride		ND	60	mg/Kg	20	9/1/2020 12:53:17 PM	54839
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.4	mg/Kg	1	8/29/2020 1:20:30 AM	54745
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	8/29/2020 1:20:30 AM	54745
Surr:	DNOP	86.3	30.4-154	%Rec	1	8/29/2020 1:20:30 AM	54745
EPA ME	THOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	8/29/2020 7:47:07 PM	54741
Surr:	BFB	98.1	75.3-105	%Rec	1	8/29/2020 7:47:07 PM	54741

Surr: BFB	98.1	75.3-105	%Rec	1	8/29/2020 7:47:07 PM	54741	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.023	mg/Kg	1	8/29/2020 7:47:07 PM	54741	
Toluene	ND	0.047	mg/Kg	1	8/29/2020 7:47:07 PM	54741	
Ethylbenzene	ND	0.047	mg/Kg	1	8/29/2020 7:47:07 PM	54741	
Xylenes, Total	ND	0.093	mg/Kg	1	8/29/2020 7:47:07 PM	54741	
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/29/2020 7:47:07 PM	54741	

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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Xylenes, Total

Surr: 4-Bromofluorobenzene

**Analytical Report** Lab Order 2008E81

Date Reported: 9/3/2020

8/29/2020 8:10:34 PM

8/29/2020 8:10:34 PM

54741

54741

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-13 East **Project:** Devon Cotton Draw 156H Collection Date: 8/25/2020 10:35:00 AM Lab ID: 2008E81-014 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 9/1/2020 1:05:42 PM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 8/31/2020 12:45:24 PM 54763 Motor Oil Range Organics (MRO) ND 8/31/2020 12:45:24 PM 54763 47 mg/Kg 1 Surr: DNOP 87.1 8/31/2020 12:45:24 PM 54763 30.4-154 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 8:10:34 PM Gasoline Range Organics (GRO) ND 54741 4.6 mg/Kg 1 Surr: BFB 103 75.3-105 %Rec 8/29/2020 8:10:34 PM 54741 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 8/29/2020 8:10:34 PM 54741 Benzene 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 8/29/2020 8:10:34 PM 54741 Ethylbenzene ND 0.046 mg/Kg 1 8/29/2020 8:10:34 PM 54741

ND

105

0.092

80-120

mg/Kg

%Rec

1

1

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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Lab ID:

**Analytical Report** Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-015

Devon Cotton Draw 156H

Client Sample ID: AH-14 Surface Collection Date: 8/25/2020 10:55:00 AM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 1:18:07 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/31/2020 12:55:02 PM	54763
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/31/2020 12:55:02 PM	54763
Surr: DNOP	87.7	30.4-154	%Rec	1	8/31/2020 12:55:02 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 8:34:03 PM	54741
Surr: BFB	98.8	75.3-105	%Rec	1	8/29/2020 8:34:03 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 8:34:03 PM	54741
Toluene	ND	0.048	mg/Kg	1	8/29/2020 8:34:03 PM	54741
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 8:34:03 PM	54741
Xylenes, Total	ND	0.096	mg/Kg	1	8/29/2020 8:34:03 PM	54741
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/29/2020 8:34:03 PM	54741

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
- 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

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Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

8/29/2020 9:44:19 PM

8/29/2020 9:44:19 PM

54741

54741

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-15 West **Project:** Devon Cotton Draw 156H Collection Date: 8/25/2020 11:15:00 AM Lab ID: 2008E81-016 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 60 mg/Kg 20 9/1/2020 1:30:32 PM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 8/31/2020 1:04:40 PM 54763 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/31/2020 1:04:40 PM 54763 Surr: DNOP 96.5 30.4-154 %Rec 1 8/31/2020 1:04:40 PM 54763 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/29/2020 9:44:19 PM Gasoline Range Organics (GRO) ND 54741 4.9 mg/Kg 1 Surr: BFB 98.8 75.3-105 %Rec 8/29/2020 9:44:19 PM 54741 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 8/29/2020 9:44:19 PM ND 54741 Benzene 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/29/2020 9:44:19 PM 54741 Ethylbenzene ND 0.049 mg/Kg 1 8/29/2020 9:44:19 PM 54741

ND

103

0.097

80-120

mg/Kg

%Rec

1

1

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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2008E81-017

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2008E81

Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: AH-16 Surface Devon Cotton Draw 156H Collection Date: 8/25/2020 11:35:00 AM Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RI** Qual Units DF Date Analyzed Ratch

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 1:42:56 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/31/2020 1:14:19 PM	54763
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/31/2020 1:14:19 PM	54763
Surr: DNOP	93.6	30.4-154	%Rec	1	8/31/2020 1:14:19 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 10:07:41 PM	54741
Surr: BFB	98.4	75.3-105	%Rec	1	8/29/2020 10:07:41 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 10:07:41 PM	54741
Toluene	ND	0.048	mg/Kg	1	8/29/2020 10:07:41 PM	54741
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 10:07:41 PM	54741
Xylenes, Total	ND	0.097	mg/Kg	1	8/29/2020 10:07:41 PM	54741
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	8/29/2020 10:07:41 PM	54741

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

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Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

8/29/2020 10:31:08 PM 54741

Analyst: NSB

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Safety & Environmental Solut	ions	Cli	ient Sample I	D: H-	-17 North West	
Project:	Devon Cotton Draw 156H		(	Collection Dat	t <b>e:</b> 8/2	25/2020 11:55:00 AM	
Lab ID:	2008E81-018	Matrix: SOIL         Received Date: 8/27/2020 8:00:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: CJS
Chloride		ND	60	mg/Kg	20	9/1/2020 1:55:20 PM	54839
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: JME
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	8/31/2020 1:23:59 PM	54763
Motor O	il Range Organics (MRO)	ND	47	mg/Kg	1	8/31/2020 1:23:59 PM	54763
Surr:	DNOP	97.1	30.4-154	%Rec	1	8/31/2020 1:23:59 PM	54763
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB

ND

95.8

ND

ND

ND

ND

103

5.0

75.3-105

0.025

0.050

0.050

0.10

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

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 18 of 30

Released to Imaging: 2/3/2023 11:27:42 AM

Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-019

Devon Cotton Draw 156H

Client Sample ID: H-18 South Collection Date: 8/25/2020 12:20:00 PM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 2:32:34 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	8/31/2020 1:33:39 PM	54763
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/31/2020 1:33:39 PM	54763
Surr: DNOP	102	30.4-154	%Rec	1	8/31/2020 1:33:39 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/29/2020 10:54:41 PM	54741
Surr: BFB	96.9	75.3-105	%Rec	1	8/29/2020 10:54:41 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	8/29/2020 10:54:41 PM	54741
Toluene	ND	0.047	mg/Kg	1	8/29/2020 10:54:41 PM	54741
Ethylbenzene	ND	0.047	mg/Kg	1	8/29/2020 10:54:41 PM	54741
Xylenes, Total	ND	0.093	mg/Kg	1	8/29/2020 10:54:41 PM	54741
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/29/2020 10:54:41 PM	54741

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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Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-020

Devon Cotton Draw 156H

Client Sample ID: AH-19 Surface Collection Date: 8/25/2020 12:40:00 PM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 2:44:59 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/31/2020 1:43:20 PM	54763
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/31/2020 1:43:20 PM	54763
Surr: DNOP	103	30.4-154	%Rec	1	8/31/2020 1:43:20 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/29/2020 11:18:11 PM	54741
Surr: BFB	102	75.3-105	%Rec	1	8/29/2020 11:18:11 PM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/29/2020 11:18:11 PM	54741
Toluene	ND	0.048	mg/Kg	1	8/29/2020 11:18:11 PM	54741
Ethylbenzene	ND	0.048	mg/Kg	1	8/29/2020 11:18:11 PM	54741
Xylenes, Total	ND	0.097	mg/Kg	1	8/29/2020 11:18:11 PM	54741
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/29/2020 11:18:11 PM	54741

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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Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-021

Devon Cotton Draw 156H

Client Sample ID: H-20 North Collection Date: 8/25/2020 1:15:00 PM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 2:57:23 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	8/31/2020 1:53:02 PM	54763
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/31/2020 1:53:02 PM	54763
Surr: DNOP	88.1	30.4-154	%Rec	1	8/31/2020 1:53:02 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/29/2020 11:41:32 PM	1 54741
Surr: BFB	98.3	75.3-105	%Rec	1	8/29/2020 11:41:32 PM	1 54741
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	8/29/2020 11:41:32 PM	1 54741
Toluene	ND	0.046	mg/Kg	1	8/29/2020 11:41:32 PM	1 54741
Ethylbenzene	ND	0.046	mg/Kg	1	8/29/2020 11:41:32 PM	1 54741
Xylenes, Total	ND	0.092	mg/Kg	1	8/29/2020 11:41:32 PM	1 54741
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	8/29/2020 11:41:32 PM	1 54741

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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Date Reported: 9/3/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-21 South **Project:** Devon Cotton Draw 156H Collection Date: 8/25/2020 1:35:00 PM Lab ID: 2008E81-022 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 61 mg/Kg 20 9/1/2020 3:09:48 PM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME mg/Kg **Diesel Range Organics (DRO)** ND 9.8 1 8/31/2020 2:02:54 PM 54763 Motor Oil Range Organics (MRO) ND 8/31/2020 2:02:54 PM 54763 49 mg/Kg 1 Surr: DNOP 85.4 %Rec 8/31/2020 2:02:54 PM 54763 30.4-154 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB . -~~~~ 0---. (000) ..... .... - - - -54741 4741 Ε SB

Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/30/2020 12:04:57 AM 54741	
Surr: BFB	98.4	75.3-105	%Rec	1	8/30/2020 12:04:57 AM 54741	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	ND	0.023	mg/Kg	1	8/30/2020 12:04:57 AM 54741	
Toluene	ND	0.047	mg/Kg	1	8/30/2020 12:04:57 AM 54741	
Ethylbenzene	ND	0.047	mg/Kg	1	8/30/2020 12:04:57 AM 54741	
Xylenes, Total	ND	0.093	mg/Kg	1	8/30/2020 12:04:57 AM 54741	
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/30/2020 12:04:57 AM 54741	

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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Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

8/30/2020 12:28:23 AM 54741

8/30/2020 12:28:23 AM 54741

8/30/2020 12:28:23 AM 54741

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-22 East **Project:** Devon Cotton Draw 156H Collection Date: 8/25/2020 1:50:00 PM Lab ID: 2008E81-023 Matrix: SOIL Received Date: 8/27/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CJS Chloride ND 59 mg/Kg 20 9/1/2020 3:22:13 PM 54839 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 8/31/2020 2:12:47 PM 54763 ND 54763 Motor Oil Range Organics (MRO) 47 mg/Kg 1 8/31/2020 2:12:47 PM Surr: DNOP 69.5 8/31/2020 2:12:47 PM 30.4-154 %Rec 1 54763 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 8/30/2020 12:28:23 AM 54741 Gasoline Range Organics (GRO) ND 4.8 mg/Kg 1 Surr: BFB 97.8 75.3-105 %Rec 8/30/2020 12:28:23 AM 54741 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.024 8/30/2020 12:28:23 AM 54741 Benzene mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/30/2020 12:28:23 AM 54741

ND

ND

101

0.048

0.096

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:** 

- \* 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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Lab ID:

Analytical Report Lab Order 2008E81

Date Reported: 9/3/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2008E81-024

Devon Cotton Draw 156H

Client Sample ID: H-23 North Collection Date: 8/25/2020 2:10:00 PM Received Date: 8/27/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	9/1/2020 3:34:38 PM	54839
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/31/2020 2:22:39 PM	54763
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/31/2020 2:22:39 PM	54763
Surr: DNOP	76.7	30.4-154	%Rec	1	8/31/2020 2:22:39 PM	54763
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/30/2020 12:51:55 AM	54741
Surr: BFB	96.8	75.3-105	%Rec	1	8/30/2020 12:51:55 AM	54741
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/30/2020 12:51:55 AM	54741
Toluene	ND	0.049	mg/Kg	1	8/30/2020 12:51:55 AM	54741
Ethylbenzene	ND	0.049	mg/Kg	1	8/30/2020 12:51:55 AM	54741
Xylenes, Total	ND	0.097	mg/Kg	1	8/30/2020 12:51:55 AM	54741
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/30/2020 12:51:55 AM	54741

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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Client:	Safety & E	Environm	ental S	olutions							
Project:	Devon Cor	tton Drav	v 156H								
Sample ID: ME	3-54828	SampT	Гуре: <b>т</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PB	S	Batc	h ID: <b>5</b> 4	828	F	RunNo: 7	1527				
Prep Date: 8	/31/2020	Analysis D	Date: 8	/31/2020	S	SeqNo: 2	498406	Units: mg/K	g		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LC	S-54828	SampT	Гуре: <b>Ic</b> :	S	Tes	tCode: El	PA Method	300.0: Anion:	s		
Client ID: LC	SS	Batc	h ID: 54	828	F	RunNo: <b>7</b>	1527				
Prep Date: 8	/31/2020	Analysis E	Date: 8	/31/2020	5	SeqNo: 2	498407	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	92.9	90	110			
Sample ID: ME	3-54839	SampT	Гуре: <b>m</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PB	S	Batc	h ID: 54	839	F	RunNo: 7	1522				
Prep Date: 9/	/1/2020	Analysis D	Date: 9	/1/2020	S	SeqNo: 2	499640	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LC	S-54839	SampT	Гуре: <b>Іс</b> :	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LC	SS	Batc	h ID: <b>5</b> 4	839	F	RunNo: 7	1522				
Prep Date: 9/	/1/2020	Analysis E	Date: 9	/1/2020	S	SeqNo: 2	499641	Units: mg/K	g		
Apolyto		Result	PQL	SPK voluo	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SFR value	SFR Kei vai	/0KLC	LOWLINI	riigii∟iiiit			Quai

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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2008E81

03-Sep-20

## **QC SUMMARY REPORT** Hall Environmen

Hall Environment	tal Analys	sis L	aborat	ory, Inc.						03-Sep-20
•	& Environmen Cotton Draw 1		utions							
Sample ID: MB-54763	SampTyp	be: MB	LK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch I	D: <b>547</b>	63	F	RunNo: 7	1495				
Prep Date: 8/28/2020	Analysis Dat	te: <b>8/3</b>	1/2020	S	SeqNo: 24	496911	Units: <b>mg/K</b>	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	10		10.00		102	30.4	154			
Sample ID: LCS-54763	SampTyp	be: LCS	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch I	D: 547	63	F	RunNo: 7	1495				
Prep Date: 8/28/2020	Analysis Dat	te: <b>8/3</b>	1/2020	S	SeqNo: 24	496915	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.8	70	130			
Surr: DNOP	5.0		5.000		99.1	30.4	154			

Sample ID: LCS-54745	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diese								
Client ID: LCSS	Batch	n ID: 547	745	F	RunNo: 7	1513				
Prep Date: 8/27/2020	Analysis D	ate: 8/	28/2020	S	SeqNo: 24	498055	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	70	130			
Surr: DNOP	2.0		5.000		39.7	30.4	154			
Sample ID: MB-54745	•	ype: ME		TestCode: EPA Method 8015M/D: Diesel Range Organ RunNo: 71513						
Client ID: PBS	Batch	n ID: 547	/45	1		1513				
Client ID: <b>PBS</b> Prep Date: <b>8/27/2020</b>	Batcr Analysis D				SeqNo: 2		Units: mg/K	g		
			28/2020				Units: <b>mg/K</b> HighLimit	í <b>g</b> %RPD	RPDLimit	Qual
Prep Date: 8/27/2020 Analyte	Analysis D	ate: <b>8/</b> 2	28/2020	S	SeqNo: 24	498057	Ŭ	•	RPDLimit	Qual
Prep Date: 8/27/2020	Analysis D Result	ate: <b>8/</b> 2 PQL	28/2020	S	SeqNo: 24	498057	Ŭ	•	RPDLimit	Qual

#### **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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2008E81

•	Environmental Solutions otton Draw 156H			
Sample ID: mb-54738	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 54738	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495652	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 990 1000	99.3 75.3	105	
Sample ID: Ics-54738	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 54738	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495653	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0 25.00	0 82.3 72.5	106	
Surr: BFB	1100 1000	107 75.3	105	S
Sample ID: mb-54741	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 54741	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495676	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	1000 1000	99.7 75.3	105	
Sample ID: Ics-54741	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 54741	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495677	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	21 5.0 25.00	0 84.6 72.5	106	_
Surr: BFB	1100 1000	106 75.3	105	S
Sample ID: 2008e81-006ams	SampType: <b>MS</b>	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: AH-5 1ft	Batch ID: 54741	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495679	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	20 4.8 23.83	0 81.9 61.3	114	
Surr: BFB	1000 953.3	106 75.3	105	S
Sample ID: 2008e81-006amsd	SampType: MSD	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: AH-5 1ft	Batch ID: 54741	RunNo: 71474		
Prep Date: 8/27/2020	Analysis Date: 8/29/2020	SeqNo: 2495680	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual

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

2008E81

03-Sep-20

Client:	2	Safety & Environmental Solutions Devon Cotton Draw 156H											
Project:	Devon Co	otton Draw	156H										
Sample ID: 200	08e81-006amsd	SampT	ype: <b>M\$</b>	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: AH	Client ID: AH-5 1ft Batch ID: 54741						1474						
Prep Date: 8/	/27/2020	Analysis D	ate: <b>8/</b>	29/2020	S	eqNo: 24	495680	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Or	ganics (GRO)	21	4.8	23.95	0	86.8	61.3	114	6.26	20			
Surr: BFB		1000		957.9		108	75.3	105	0	0	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

2008E81

03-Sep-20

Client: Safety &	z Environme	ental So	lutions							
Project: Devon C	Cotton Draw	v 156H								
				_						
Sample ID: mb-54738		ype: ME					8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 547	738	F	RunNo: 7	1474				
Prep Date: 8/27/2020	Analysis D	ate: 8/	29/2020	S	SeqNo: 24	195731	Units: mg/K	g		
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-54738	SampT	ype: LC	S	Tes	tCode: EF	iles				
Client ID: LCSS	Batch	n ID: 547	738	F	RunNo: <b>7</b> ′	1474				
Prep Date: 8/27/2020	Analysis D	ate: <b>8/</b>	29/2020	S	BeqNo: 24	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.6	80	120			
Toluene	0.94	0.050	1.000	0	93.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			
Sample ID: mb-54741	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 547	741	F	RunNo: 7	1474				
Prep Date: 8/27/2020	Analysis D	ate: <b>8/</b>	29/2020	S	SeqNo: 24	495755	Units: mg/K	g		
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-54741	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 547	741	F	RunNo: <b>7</b> ′	1474				
Prep Date: 8/27/2020	Analysis D	ate: <b>8/</b>	29/2020	S	SeqNo: 24	495756	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	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

2008E81

03-Sep-20

Client:	Safety & Environmental Solutions										
Project:	Devon Co	otton Drav	v 156H								
Sample ID:	2008e81-007ams	Samp	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	H-6 West	Batc	h ID: 54	741	R	lunNo: 7	1474				
Prep Date:	8/27/2020	Analysis [	Date: <b>8/</b>	29/2020	S	eqNo: 2	495759	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.91	0.024	0.9579	0	95.4	76.3	120			
Toluene		0.94	0.048	0.9579	0.01077	96.6	78.5	120			
Ethylbenzene		0.95	0.048	0.9579	0	99.3	78.1	124			
Xylenes, Total		2.9	0.096	2.874	0	99.6	79.3	125			
Surr: 4-Brom	ofluorobenzene	1.0		0.9579		108	80	120			
Sample ID:	2008e81-007amsd	I Samp	Гуре: МS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	H-6 West	Batc	h ID: 54	741	R	tunNo: 7	1474				
Prep Date:	8/27/2020	Analysis [	Date: <b>8/</b>	29/2020	S	eqNo: 2	495760	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.024	0.9597	0	93.2	76.3	120	2.18	20	
Toluene		0.92	0.048	0.9597	0.01077	94.9	78.5	120	1.55	20	
Ethylbenzene		0.93	0.048	0.9597	0	97.4	78.1	124	1.71	20	
Xylenes, Total		2.8	0.096	2.879	0	98.1	79.3	125	1.39	20	
Surr: 4-Brom	ofluorobenzene	1.0		0.9597		104	80	120	0	0	

**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 30 of 30

2008E81

03-Sep-20

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: clients.ha	49( iquerq FAX:	01 Hawkins N que, NM 8710 505-345-410	E 9 <b>Sa</b> 7	imple Log-li	n Check List
Client Name: Safety & Environmental Solutions	Work Order Number:	200	8E81		Rcp	otNo: 1
Received By: Cheyenne Cason 8	3/27/2020 8:00:00 AM					
Completed By: Juan Rojas 8	8/27/2020 8:32:31 AM		4	france	3-	
Reviewed By: JR 8/27/20						
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 🗌	NA	
5. Sample(s) in proper container(s)?		Yes		No 🗌		·
6. Sufficient sample volume for indicated test(s)?		Yes		No 🗌		
7. Are samples (except VOA and ONG) properly p	reserved?	Yes		No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	na E	
9. Received at least 1 vial with headspace <1/4" fo	or AQ VOA?	Yes		No 🗌	NA	
10. Were any sample containers received broken?		Yes		No 🗹		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	# of preserved bottles checked for pH:	<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Cus	stodv?	Yes	~	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes		No 🗌		
14. Were all holding times able to be met?		Yes	✓	No 🗌	Checked b	V. SPA 8.27 2
(If no, notify customer for authorization.)					/	
<u>Special Handling (if applicable)</u>			_			
15. Was client notified of all discrepancies with this	order?	Yes		No 🗌	NA	
Person Notified: By Whom: Regarding: Client Instructions:	Date Diate	] eM:	ail 🗌 Phor	ne 🗌 Fa	x 🗌 In Person	
16. Additional remarks:					·····	··]
17. Cooler Information						

 Cooler No
 Temp %
 Condition
 Seal Intact
 Seal No
 Seal Date
 Signed By

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<b>Received by OCD:</b> 11/1/2022	:30:08 PM								Page 44 of 6
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)								Devin Devin
ALI NA ww.h s NE -397	PHAs by 8310 or 8270SIMS PCRA 8 Metals			+ +					
<b>AI</b> wkin 5-345	EDB (Method 504.1)								A protection
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	8081 Pesticides/8082 PCB's								Prill
49 16	ТРН:8015D(GRO / DRO / MRO)	X							Remarks:
	BTEX / MTBE / TMB's (8021)	Д	<u> </u>	┢╼┾			$\neq \triangleright$	�	Rer
ime: 6 Daw - Rush Bruw 1 56 H - 20-043	Kent Hent Dec Grypen (°C HEAL No HEAL No HEAL No	109-	209-	-004	-201-	100-	600		8 27/23 0800 Si 27/23 0800
Turn-Around Time: 6 Own Standard Rush Project Name: AULUN 156 Broject #: Project #:	I Type	He							Via: Vue Councilier
Turn-Around T ⊡ Standard Project Name: Project #:					<u> </u>				Received by: Received by:
Client: Subdy Y Grulup Record Client: Subdy Y Grulup Manual Solutrum S Mailing Address: 703 E Cluntum Hone #. 575-397.0510	email or Fax#: QA/QC Package: Carlon Cackage: Carlon Cackage: C	8	1120 < 121-2 504 pur	5 H-4 6	1215 5 MH-9 Sumaue	1310 5 A-6 WEST 1235 5 A-7 CART	1350 5 241-8 Surface		F. Time:       Relinfullified by:       Levent       Received by:       Via:       Date       Time       Remarks:         26       Prove       P
Released to Imaging: 2/3/2023		\$						<u>}</u>	

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	RCRA 8 Metals Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) 					<b>Device</b> $1, 2, 0 \neq 0, 2, 1, 9$ $3, 1, 2, 0 \neq 3, 1$ $3, 1, 2, 0 \neq 3, 1$ 4 4 4 4 4 4 4 4
HALL ANAL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 of 8270SIMS					Remarks: [3,1] to possibility. Any sub-contracted
5 Day Rush With With 156 A	L	110	2017	210- 2017 2010-	120- 120-	Date Time R Date Time S/27/20 03CD les. This serves as notice of this p
Turn-Around Time: 5 PW Topiect Name: Bev m Project #: Project #:	Project Manager: <i>HULW</i> , <i>KM</i> Sampler: <i>XXX Lu</i> On Ice: <i>D</i> Yec. <i>Lu</i> <i>Con Ice: D</i> Yec. <i>Lu</i> <i>Coolers: C</i> Cooler Temp(menuting cc): <i>Su</i> Container Preservative Type and # Type	1 200				Received by: Via:
Client: Surt, + Guldwonwuch ( Client: Surt, + Guldwonwuch ( Mailing Address: 203 C. Churton ( Address: 203 C. Churton ( Abone #: 575-397-0510	ail or Fax#: /QC Package: Standard	5 H-10 E	1015 5 H-12 WEST 1035 5 H-13 GAST 1055 5 MH 14 Surfree	115 > H-15 (JES)  135 > H-16 Surpow  155 > H-17 Northar  1220 > H-18 South	1240 5 244-19 Surfue 1315 5 14-20 Norrat 15 1335 5 14-21 Source	Relinguished by: Relinquished by: Relinquished by: AMM Russian ary, samples submitted to Hall Environmental may be subco

<b>Received by OCD: 11/1/20</b> 22 1	:30:08 PM		Т				1					Page 46 of
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<b>AB</b> 1.co 245-4 545-4	otal Coliform (Present/Absent)	Ţ								++		
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV-ime2) 072	8	1							+		
NV. SIS vironm buque Fax 5 ysis R	260 (VOA)											Dum
ally, Fr.	31' E' Bt' NO <sup>3</sup> ' NO <sup>5</sup> ' EO <sup>⊄'</sup> 20 <sup>⊄</sup>							_ µ6" "				3
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HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	(1.403 botheM) 803									++	—	Bu b
	801 Pesticides/8082 PCB's	_								+	$\neg$	~
	(ORO / DRO / MRO)	<u> </u>	$\uparrow$			-					—].	Γ <sup>rks:</sup>
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	<ul> <li>Level 4 (Full Validation)</li> <li>npliance</li> <li>Sample Name</li> </ul>		4									
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Chain-of-Custody Record Suddy & Grienmuch B Address: 703 & Oluchon Ship N.W. 88240 e#: 575-397-0510		0	オ		+			$\vdash$		+	╡	
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Client: <												8-26 0-126
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October 30, 2020

Bob Allen Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241 TEL: (575) 397-0510 FAX (575) 393-4388

RE: Devon Cotton Draw 156H

OrderNo.: 2010B15

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/23/2020 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

Surr: Toluene-d8

Analytical Report
Lab Order 2010B15

Date Reported: 10/30/2020

10/25/2020 6:31:03 AM 56003

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solution	ons	Cl	ient Sample II	D: SF	P-24 1 FT	
<b>Project:</b> Devon Cotton Draw 156H		(	<b>Collection Dat</b>	<b>e:</b> 10	/21/2020 10:15:00 AM	1
Lab ID: 2010B15-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/23/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	ND	60	mg/Kg	20	10/29/2020 11:18:16 A	M 56097
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2020 6:31:03 AM	1 56003
Surr: BFB	89.5	70-130	%Rec	1	10/25/2020 6:31:03 AM	1 56003
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/26/2020 2:56:43 PM	/ 56014
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/26/2020 2:56:43 PM	1 56014
Surr: DNOP	93.2	30.4-154	%Rec	1	10/26/2020 2:56:43 PM	/ 56014
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analys	t: DJF
Benzene	ND	0.025	mg/Kg	1	10/25/2020 6:31:03 AM	1 56003
Toluene	ND	0.049	mg/Kg	1	10/25/2020 6:31:03 AM	1 56003
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2020 6:31:03 AM	1 56003
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2020 6:31:03 AM	1 56003
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	10/25/2020 6:31:03 AM	1 56003
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	10/25/2020 6:31:03 AM	1 56003
Surr: Dibromofluoromethane	107	70-130	%Rec	1	10/25/2020 6:31:03 AM	1 56003

103

70-130

%Rec

1

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 10

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Analytical Report
Lab Order 2010B15

Date Reported: 10/30/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solution	ns	Cli	ient Sample II	D: SP	P-25 1 FT	
<b>Project:</b> Devon Cotton Draw 156H		(	Collection Dat	<b>e:</b> 10,	/21/2020 12:05:00 PM	
Lab ID: 2010B15-002	Matrix: SOIL		Received Dat	<b>e:</b> 10,	/23/2020 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	10/29/2020 11:55:29 A	M 56097
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2020 7:00:22 AN	56003
Surr: BFB	90.3	70-130	%Rec	1	10/25/2020 7:00:22 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	10/26/2020 3:20:44 PN	56014
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/26/2020 3:20:44 PM	56014
Surr: DNOP	93.0	30.4-154	%Rec	1	10/26/2020 3:20:44 PM	56014
EPA METHOD 8260B: VOLATILES SHOR	TLIST				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	10/25/2020 7:00:22 AM	56003
Toluene	ND	0.049	mg/Kg	1	10/25/2020 7:00:22 AN	56003
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2020 7:00:22 AM	56003
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2020 7:00:22 AM	56003
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	10/25/2020 7:00:22 AM	56003
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	10/25/2020 7:00:22 AM	56003
Surr: Dibromofluoromethane	111	70-130	%Rec	1	10/25/2020 7:00:22 AM	56003
Surr: Toluene-d8	103	70-130	%Rec	1	10/25/2020 7:00:22 AM	56003

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 10

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**Project:** 

Lab ID:

Analyses

Chloride

**Analytical Report** Lab Order 2010B15

Date Reported: 10/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-26 North Devon Cotton Draw 156H Collection Date: 10/21/2020 12:45:00 PM 2010B15-003 Matrix: SOIL Received Date: 10/23/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: CAS ND 60 mg/Kg 20 10/29/2020 4:40:52 PM 56097 03

EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: DJF	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2020 7:29:53 AM 56003	
Surr: BFB	88.6	70-130	%Rec	1	10/25/2020 7:29:53 AM 56003	
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/26/2020 4:08:41 PM 56014	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/26/2020 4:08:41 PM 56014	
Surr: DNOP	94.7	30.4-154	%Rec	1	10/26/2020 4:08:41 PM 56014	
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: DJF	
Benzene	ND	0.025	mg/Kg	1	10/25/2020 7:29:53 AM 56003	
Toluene	ND	0.050	mg/Kg	1	10/25/2020 7:29:53 AM 56003	
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2020 7:29:53 AM 56003	
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2020 7:29:53 AM 56003	
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	10/25/2020 7:29:53 AM 56003	
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	10/25/2020 7:29:53 AM 56003	
Surr: Dibromofluoromethane	109	70-130	%Rec	1	10/25/2020 7:29:53 AM 56003	
Surr: Toluene-d8	101	70-130	%Rec	1	10/25/2020 7:29:53 AM 56003	

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
- Reporting Limit RL

Page 3 of 10

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2010B15

Date Reported: 10/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2010B15-004

Devon Cotton Draw 156H

Client Sample ID: H-27 East Collection Date: 10/21/2020 11:10:00 AM Matrix: SOIL Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	10/29/2020 4:53:16 PM	56097
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2020 7:59:30 AM	56003
Surr: BFB	90.0	70-130	%Rec	1	10/25/2020 7:59:30 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/26/2020 4:32:43 PM	56014
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/26/2020 4:32:43 PM	56014
Surr: DNOP	88.3	30.4-154	%Rec	1	10/26/2020 4:32:43 PM	56014
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	10/25/2020 7:59:30 AM	56003
Toluene	ND	0.050	mg/Kg	1	10/25/2020 7:59:30 AM	56003
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2020 7:59:30 AM	56003
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2020 7:59:30 AM	56003
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	10/25/2020 7:59:30 AM	56003
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	10/25/2020 7:59:30 AM	56003
Surr: Dibromofluoromethane	109	70-130	%Rec	1	10/25/2020 7:59:30 AM	56003
Surr: Toluene-d8	102	70-130	%Rec	1	10/25/2020 7:59:30 AM	56003

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

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2010B15-005

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2010B15

Date Reported: 10/30/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H-28 West Devon Cotton Draw 156H Collection Date: 10/21/2020 11:50:00 AM Matrix: SOIL Received Date: 10/23/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch

EPA METHOD 300.0: ANIONS					Analyst:	CAS
Chloride	ND	60	mg/Kg	20	10/29/2020 5:30:29 PM	56097
EPA METHOD 8015D MOD: GASOLINE RANG	θE				Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2020 8:29:17 AM	56003
Surr: BFB	89.4	70-130	%Rec	1	10/25/2020 8:29:17 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst:	mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/26/2020 4:56:37 PM	56014
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/26/2020 4:56:37 PM	56014
Surr: DNOP	83.1	30.4-154	%Rec	1	10/26/2020 4:56:37 PM	56014
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	10/25/2020 8:29:17 AM	56003
Toluene	ND	0.049	mg/Kg	1	10/25/2020 8:29:17 AM	56003
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2020 8:29:17 AM	56003
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2020 8:29:17 AM	56003
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	10/25/2020 8:29:17 AM	56003
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/25/2020 8:29:17 AM	56003
Surr: Dibromofluoromethane	109	70-130	%Rec	1	10/25/2020 8:29:17 AM	56003
Surr: Toluene-d8	104	70-130	%Rec		10/25/2020 8:29:17 AM	56003

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

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**Project:** 

Lab ID:

Analytical Report
Lab Order 2010B15

Date Reported: 10/30/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2010B15-006

Devon Cotton Draw 156H

Client Sample ID: H-29 South Collection Date: 10/21/2020 10:35:00 AM Received Date: 10/23/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	ND	6.0		mg/Kg	2	10/29/2020 5:42:53 PM	56097
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2020 8:59:13 AM	56003
Surr: BFB	87.6	70-130		%Rec	1	10/25/2020 8:59:13 AM	56003
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/26/2020 5:20:46 PM	56014
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/26/2020 5:20:46 PM	56014
Surr: DNOP	94.0	30.4-154		%Rec	1	10/26/2020 5:20:46 PM	56014
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	DJF
Benzene	ND	0.025		mg/Kg	1	10/25/2020 8:59:13 AM	56003
Toluene	ND	0.050		mg/Kg	1	10/25/2020 8:59:13 AM	56003
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2020 8:59:13 AM	56003
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2020 8:59:13 AM	56003
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/25/2020 8:59:13 AM	56003
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	10/25/2020 8:59:13 AM	56003
Surr: Dibromofluoromethane	108	70-130		%Rec	1	10/25/2020 8:59:13 AM	56003
Surr: Toluene-d8	100	70-130		%Rec	1	10/25/2020 8:59:13 AM	56003

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
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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

- 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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	fety & Environmental Solutions won Cotton Draw 156H			
Sample ID: MB-56097	SampType: mblk	TestCode: EPA Method	1 300.0: Anions	
Client ID: PBS	Batch ID: 56097	RunNo: 73010		
Prep Date: 10/29/202	0 Analysis Date: 10/29/2020	SeqNo: 2567071	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-56097	SampType: Ics	TestCode: EPA Method	1 300.0: Anions	
Client ID: LCSS	Batch ID: 56097	RunNo: 73010		
Prep Date: 10/29/202	0 Analysis Date: 10/29/2020	SeqNo: 2567073	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	14 1.5 15.00	0 92.4 90	110	

- \* Value exceeds Maximum Contaminant Level.
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Client: Project:	Safety & Environ Devon Cotton Dra		ons							
Sample ID: LCS-5	<b>6014</b> Sam	oType: LCS		Test	Code: EPA	A Method 8	8015M/D: Dies	sel Range	• Organics	
Client ID: LCSS	Bat	ch ID: 56014		Ru	unNo: <b>729</b>	917				
Prep Date: 10/24	Analysis	Date: 10/26/2	2020	Se	eqNo: <b>256</b>	3396	Units: mg/Kg	I		
Analyte	Result	PQL SPI	K value SF	PK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) 54	10	50.00	0	108	70	130			
Surr: DNOP	5.3		5.000		106	30.4	154			
Sample ID: MB-56	i <b>014</b> Samı	oType: <b>MBLK</b>		Test	Code: EPA	A Method 8	8015M/D: Die:	sel Range	e Organics	
Client ID: PBS	Bat	ch ID: 56014		Ru	unNo: <b>729</b>	917				
Prep Date: 10/24	Analysis	Date: 10/26/2	2020	Se	eqNo: <b>256</b>	3397	Units: mg/Kg	I		
Analyte	Result	PQL SPI	K value SF	PK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	. ,	10								
Motor Oil Range Organi		50								
Surr: DNOP	11		10.00		105	30.4	154			
Sample ID: LCS-5	6030 Sam	oType: <b>LCS</b>		Test	Code: EPA	A Method 8	8015M/D: Die:	sel Range	e Organics	
Client ID: LCSS	Bat	ch ID: 56030		Ru	unNo: <b>729</b>	33				
Prep Date: 10/26	Analysis	Date: 10/27/2	2020	Se	eqNo: <b>256</b>	5384	Units: %Rec			
Analyte	Result	PQL SPI	K value SF	PK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.3	30.4	154			
Sample ID: MB-56	<b>030</b> Sam	Type: MBLK		Test	Code: EPA	A Method 8	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Bat	ch ID: 56030		Ru	unNo: <b>729</b>	33				
Prep Date: 10/26	Analysis	Date: 10/27/2	2020	Se	eqNo: <b>256</b>	5385	Units: %Rec			
Analyte	Result	PQL SPI	K value SF	PK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		90.5	30.4	154			

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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	afety & Environm evon Cotton Drav		olutions								
Sample ID: mb-56003	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: PBS	Batc	ch ID: 56	003	RunNo: <b>72903</b>							
Prep Date: 10/23/20	20 Analysis [	Date: 10	0/25/2020	S	SeqNo: 2	562554	Units: mg/k	٢g			
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 0.50		0.5000		99.1	70	130				
Surr: 4-Bromofluorobenze	ne 0.50		0.5000		101	70	130				
Surr: Dibromofluorometha	ne 0.52		0.5000		105	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				
Sample ID: Ics-56003	Samp	Туре: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: BatchQC	Batc	ch ID: 56	003	F	RunNo: 7	2903					
Prep Date: 10/23/20	20 Analysis I	Date: 10	0/25/2020	S	SeqNo: 2	562555	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.025	1.000	0	92.4	80	120				
Toluene	1.0	0.050	1.000	0	103	80	120				
Ethylbenzene	1.1	0.050	1.000	0	105	80	120				
Xylenes, Total	3.1	0.10	3.000	0	103	80	120				
Surr: 1,2-Dichloroethane-o	d4 0.51		0.5000		103	70	130				
Surr: 4-Bromofluorobenze	ne 0.50		0.5000		99.9	70	130				
Surr: Dibromofluorometha	ne 0.55		0.5000		110	70	130				
Surr: Dibromotiuorometha	0.55		0.0000		110	10	100				

Qualifiers:

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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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•	Environme Cotton Draw		olutions							
Sample ID: mb-56003	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch	n ID: 56	003	R	unNo: 7	2903				
Prep Date: 10/23/2020	Analysis D	ate: 10	0/25/2020	S	eqNo: 2	562591	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	450		500.0		89.3	70	130			
Sample ID: Ics-56003	SampT	ype: LC	S	Test	tCode: El	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch	n ID: 56	003	R	unNo: 7	2903				
Prep Date: 10/23/2020	Analysis D	ate: 10	)/25/2020	S	eqNo: 2	562592	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.4	70	130			
Surr: BFB	440		500.0		88.5	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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ANAL	RONMENT YSIS RATORY	AL	T	all Environmo EL: 505-345- Vebsite: clien	49 Albuquer 3975 FAX	01 Hawi que, NM 505-34	kins NE 1 87109 15-4107	Sa	mple Log-In Check Lis	st
Client Name:	Safety & E Solutions	Environmenta	l Wor	k Order Nun	nber: 201	0B15			RcptNo: 1	
Received By:	Cheyenn	e Cason	10/23/	2020 8:00:0	0 AM					
Completed By:	Desiree D	Dominguez	10/23/	2020 8:55:3	2 AM		TH	2		
Reviewed By:	SPA	10.23					1-1	R		
Chain of Cus	<u>tody</u>									
1. Is Chain of C	ustody comp	olete?			Yes	~	N	o 🗌	Not Present	
2. How was the	sample deliv	vered?			Cou	rier				
Log In										
3. Was an attem	pt made to	cool the samp	oles?		Yes	~	N	o 🗌	NA 🗌	
4. Were all samp	oles received	d at a tempera	ature of >0° C	to 6.0°C	Yes			• 🗸		
5. Sample(s) in	oroper conta	iner(s)?			Yes		ot frozen. N	• 🗌		
6. Sufficient sam	ple volume t	for indicated t	est(s)?		Yes		No	<b>b</b>		
7. Are samples (	except VOA	and ONG) pr	operly preserv	red?	Yes	$\checkmark$	No			
8. Was preserva	tive added to	bottles?			Yes		No		NA 🗌	
9. Received at le	ast 1 vial wi	th headspace	<1/4" for AQ	VOA?	Yes		No		NA 🔽	
10. Were any san	nple contain	ers received b	proken?		Yes		N	• 🗸	# of preserved	/
11. Does paperwo (Note discrepa			0		Yes		No		bottles checked for pH: (<2 or >12 unless no	tod)
2. Are matrices o				0	Yes		No	П	Adjusted?	leu)
13. Is it clear what					Yes					
14. Were all holdir (If no, notify cu	ng times able	e to be met?			Yes				Checked by: SR 10/73	Ise
Special Handl										
15. Was client no	tified of all d	iscrepancies	with this order	?	Yes		N	•	NA 🗹	
Person	Notified:	F-		Date	-					
By Who	m:	1		Via:	eM	ail 🗔	Phone [	Fax	In Person	
Regardi	ng:	[ ·		19.07			Lenna Cra, L			
Client Ir	structions:	[								
16. Additional rer	narks:									
17. Cooler Infor										
Cooler No	Temp °C		Seal Intact	Seal No	Seal D	ate	Signed	i By		
1 2	0.2 4.0	Good Good	Not Present Not Present							
-	-0.6	0000	Not Fresent							

Page 1 of 1

Received by OCD: 11/1/2022	:30:08 PM	Page 59 of 6
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV-ime2) 0520 (AOV-ime2) 0520 (fresent/Absent) (fresent/Absent) (fresent/Absent)	Time:     Relinquished by:     Received by:     Via:     Date     Time       Row     Relinquished by:     Remarks:     0.240202     Single to the second to the second by:       Row     Relinquished by:     Na:     Date     Time       Relinquished by:     Received by:     Via:     Date     Time       Relinquished by:     Na:     Na:     Na:     0.2402-0.0       Row     Received by:     Via:     Date     Time       Received by:     Via:     Date     Time     0.2402-0.0
HALL EN ANALYSI www.hallenviro kins NE - Albuq kins NE - Albuq Analysi	Big See (AOA)         S260 (VOA)           S260 (VOA)         S260 (VOA)	0720-
Anall Anall www.hall 4901 Hawkins NE - Tel. 505-345-3975 Ar	EDB (Method 504.1)       FDB (Method 504.1)	Bill Deven
		Remarks: \$ill
sex 564	HEAL NO - 001 - 003 - 005 - 005 - 005 - 005 - 006	Date Time Date Time Date Time
Time:	ager:	Via: Via:
Turn-Around T Destandard Project Name: Project #:	Project Manager:	Received by: Received by:
Chain-of-Custody Record	<ul> <li>Level 4 (Full Validation)</li> <li>mpliance</li> <li>Sample Name</li> <li>SP.24 (分子)</li> <li>S</li></ul>	d by:
n-of-Cus	le: I Az Compliance I Az Compliance I Other Matrix Sample S S P 2 A - 2 S A -	Relinguished by: Relinguished by:
Client: Chain- Client: Client: Mailing Address: Abone #:	email or Fax#: QA/QC Package: E Standard Accreditation: Date Time Date Time (1/205 (2/5) (2/5) (2/5) (1/10)	Date: Time: Date: Time: Date: Time:

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Oil Conservation Division

Incident ID	NMLB1204437755
District RP	
Facility ID	
Application ID	

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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.

<b><u>Closure Report Attachment Checklist</u>:</b> 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	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODO	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 ren 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
Printed Name: Dale Woodall Signature: Dale Woodall	_ 11/1/2022
email: dale.woodall@dvn.com	Date: 11/1/2022 Telephone: 575-748-1838
email:	Telephone:
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: <u>Ashley Maywell</u>	Date: 2/03/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist

#### ADDENDUM

Location name: Cotton Draw Unit 156H OCD Spill Number: NMLB1204437755 From: Dale Woodall, Devon Energy Date: 11/1/2022

Since this report for the above referenced spill(s) was written, there has been an update in the status of the PODs for the location.

A review of New Mexico Office of the State Engineers (OSE) online water well database (New Mexico Office of the State Engineer (NMOSE) online water well database https://gis.ose.state.nm.us/gisapps/ose\_pod\_locations/) that POD C-4643-POD1 was installed on June 6-20, 2022, to a depth of 305 feet below ground surface. Groundwater was encountered at 110 feet below ground surface. Well C-4643-POD1 is 0.4 miles east of the Cotton Draw Unit 156H.

The spills were remediated to criteria for DTW of less than 50 feet bgs.

A boring log of the well C-4643-POD1 is attached.



# WELL RECORD & LOG

OSE 011 AUG 1.9 2022 PM2:48

OFFICE	<b>OF THE</b>	STATE	ENGINEER

www.ose.state.nm.us

Z	OSE POD NO	. (WELL NO.)		WELL TAG	ID NO.		OSE FILE NO(S	5). L43		
CATIO	WELL OWNE	ER NAME(S)			1005		PHONE (OPTIC	DNAL)		
VELL LO	WELL OWNI	ER MAILING A	Valenzi IDDRESS 5 Thoma	A 1			CITY	bed	state 1/11 88	ZIP ZZO
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GP	N LATIT	DEG	grees minuti Z Zo	18.		* ACCURACY	REQUIRED: ONE TENT	TH OF A SECOND	
1. GENH			WELL LOCATION TO	STREET ADDRESS AND CO	OMMON LANDM	ARKS – PLS	-	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO		NAME OF LICENSED		Le · ·			NAME OF WELL DRI	ILLING COMPANY Horse, LL	(
	DRILLING ST	TARTED	DRILLING ENDED	DEPTH OF COMPLETED W 305	ELL (FT)	BORE HOI	LE DEPTH (FT)	DEPTH WATER FIRE	ST ENCOUNTERED (FT	
N	COMPLETEI	O WELL IS:	ARTESIAN	DRY HOLE	HALLOW (UNCO	ONFINED)		WATER LEVEL PLETED WELL	DATE STATIC	MEASURED
RMATIC	DRILLING FI		AIR	IER CABLE TOOL	DDITIVES – SPE			CHECK	HERE IF PITLESS ADA LED	PTER IS
DRILLING & CASING INFORMATION	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)			(include each casing string, and		CONN T	ASING VECTION YPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
NG & CA	0' 225	225'	10 "	PVC PVC		G	lued	6.	25	.125
DRILLI										
2.										
IAL	DEPTH FROM	ТО	BORE HOLE DIAM. (inches)	GRAVEL PACE		E BY INTE		AMOUNT (cubic feet)	METHO PLACE	MENT
ANNULAR MATERIAL	20'	201 305	10 "	(en 1/4'	WAShed	Gra Gra	we/	20 3 y Nd 4	+0 	P
NULAR								/		
3. AN										
	OSE INTER					1		-	& LOG (Version 01/2	28/2022)
	E NO. $C-1$	4649 35.2	-PODI 7E.05.4		OD NO.	(	TRN N WELL TAG II	1010		E 1 OF 2

	DEPTH (: FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATI	ND TYPE OF MA' ER-BEARING CA pplemental sheets	VITIES C	OR FRAG	CTURE ZONE	s	WAT BEARI (YES /	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	D	5	5'	TOPSVIL						Y	$\overline{\otimes}$	
		30'	25'	Calizhe						Y	Ø	
	5	90'	60'	Red Cky						Y	Ø	
	30'	1	20'	White Call						Y	Ø	
	90'	110		Gravel						0	N	
	110'	140'	30' 20'		In all	1				0	N	
4. HYDROGEOLOGIC LOG OF WELL	1. 1	160' 220'	20		tone w/cba	y				Y		
FW	160'		60'	Whiteka	K ICI					Ø	N	
60	220'	275'	55'	White clay	1 Sand Sto	re				Y		
TO	275'	305	30'	White Ro	ik							
OID										Y	N	
OLO										Y	N	
OGE										Y	N	
DR(										Y	N	
H.										Y	N	
4										Y	N	
										Y	N	
					5.					Y	N	
										Y	N	
										Y	N	
										Y	N	
5										Y	N	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:		,			AL ESTIM		
	<b>PUM</b>	P A	IR LIFT	BAILER	THER – SPECIFY	:	N/t	-	WEL	L YIELD	(gpm):	
NOISI	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SI								
	MISCELLA	NEOUS INF	ORMATION:									
TEST; RIG SUPERV								0	an ina sai ya		a awaa	
INS:								(_):	्र भ	I ALIG LI	9 2022	( PMZ) 413
RIC												
EST;	DDINIT NAM		DILL DIC SUDED	RVISOR(S) THAT PRO	WIDED ONSITE	SUDEDVI	ISIONO	E WELL CON	STRU	TIONOT	UED TU	AN LICENSEE.
5. T		1L(3) 01 D1	ALL KIO SULLA	(VISOR(S) 111AT 1 RO	VIDED ONSITE	SULERVI	15101 0	r well con	SIRUC	I ION OF	IIEK III	AN LICENSEE.
			10									
				TIES THAT, TO THE E								
SIGNATURE				DESCRIBED HOLE AN 0 DAYS AFTER COM				THIS WELL	RECOR	D WITH 1	THE STA	TE ENGINEER
IAT												
SIGN		Ab C	Ann	Tal	n North	6			5	12-	27	
6.9		SIGNATI	URE OF DRILLE			/			1-	-12-	<b>L</b> DATE	
		SIGNAT	JRE OF DRILLE	A / FRINT SIGNEE	INAME						DATE	
FOF	OSE INTER	NAL USE						WR-20 WE	LL REC	CORD & L	OG (Ver	sion 01/28/2022)
FIL		0464			POD NO.			TRN NO.		730	6	
LOC	CATION	235.2	7E.05	. 4. 2.2.	2		WELL	TAG ID NO.	21	068		PAGE 2 OF 2

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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

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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	155331
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/3/2023

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Action 155331