

Incident ID	NDHR1914456327
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
 Signature: \_\_\_\_\_ Date: 11/1/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: OCD Date: 11/01/2022

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

Closure Approved by: Ashley Maxwell Date: 2/03/2023  
 Printed Name: Ashley Maxwell Title: Environmental Specialist

**Devon Energy Production Company  
CDU 18 Fed Com 1H**

**Closure Report  
UL M, Section 18, T25S, R32E  
Eddy County, New Mexico**

**NDHR1914456327**

**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
Tom Bynum	Devon Energy	580-748-1613	Tom.Bynum@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 CDU 18 Fed Com 1H location concerning a release of 500 gallons of Methanol from a vessel. According to the C-141, a fire was the cause of the release. No fluids were recovered. This site is situated in Lea County, Section 18, Township 25S, and Range 32E.

SESI personnel performed an assessment of the site in February 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. 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 March 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced 8 auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analysis. The results of the testing are captured in the summary below:

Devon Energy CDU 18 Fed Com 1H Soil Sample Results: Hall Environmental Laboratories 3/6/20								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
AH1 @ SURFACE	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ SURFACE	610	ND	54	69	ND	ND	ND	ND
AH3 @ SURFACE	400	ND	ND	ND	ND	ND	ND	ND
AH4 @ SURFACE	610	ND	56	66	ND	ND	ND	ND
AH5 @ SURFACE	410	ND	ND	ND	ND	ND	ND	ND
AH6 @ SURFACE	410	ND	ND	ND	ND	ND	ND	ND
AH7 @ SURFACE	1200	ND	700	860	ND	ND	ND	ND
AH8 @ SURFACE	2500	ND	1400	1900	ND	ND	ND	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 foot as practicable. In May of 2020, approximately 60 yds of stained material was removed via backhoe then confirmation and horizontal samples were taken to ensure remediation was successful and that the horizontal extent of the release area had been established. Auger holes at locations 7 & 8 were deepened to 1' in order to verify proper remediation of these "hot spots". The decision was made to excavate the entire area to a depth of 1'. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The result of the sampling is captured in the table below.

Devon Energy CDU 18 Fed Com 1H Soil Sample Results: Hall Environmental Laboratories 4/1/20								
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes
SP-1 BTM @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
SP-2 BTM @ 1'	ND	ND	ND	ND	ND	ND	ND	ND
SP-3 NORTH WALL	61	ND	ND	ND	ND	ND	ND	ND
SP-4 NORTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-5 WEST WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-6 SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-7 SOUTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-8 BOTTOM	ND	ND	ND	ND	ND	ND	ND	ND
SP-9 BOTTOM	ND	ND	ND	ND	ND	ND	ND	ND
SP-10 BOTTOM	ND	ND	ND	ND	ND	ND	ND	ND
SP-11 BOTTOM	ND	ND	ND	ND	ND	ND	ND	ND
SP-12 NORTH WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-13 WEST WALL	ND	ND	ND	ND	ND	ND	ND	ND
SP-14 NORTH WALL	63	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

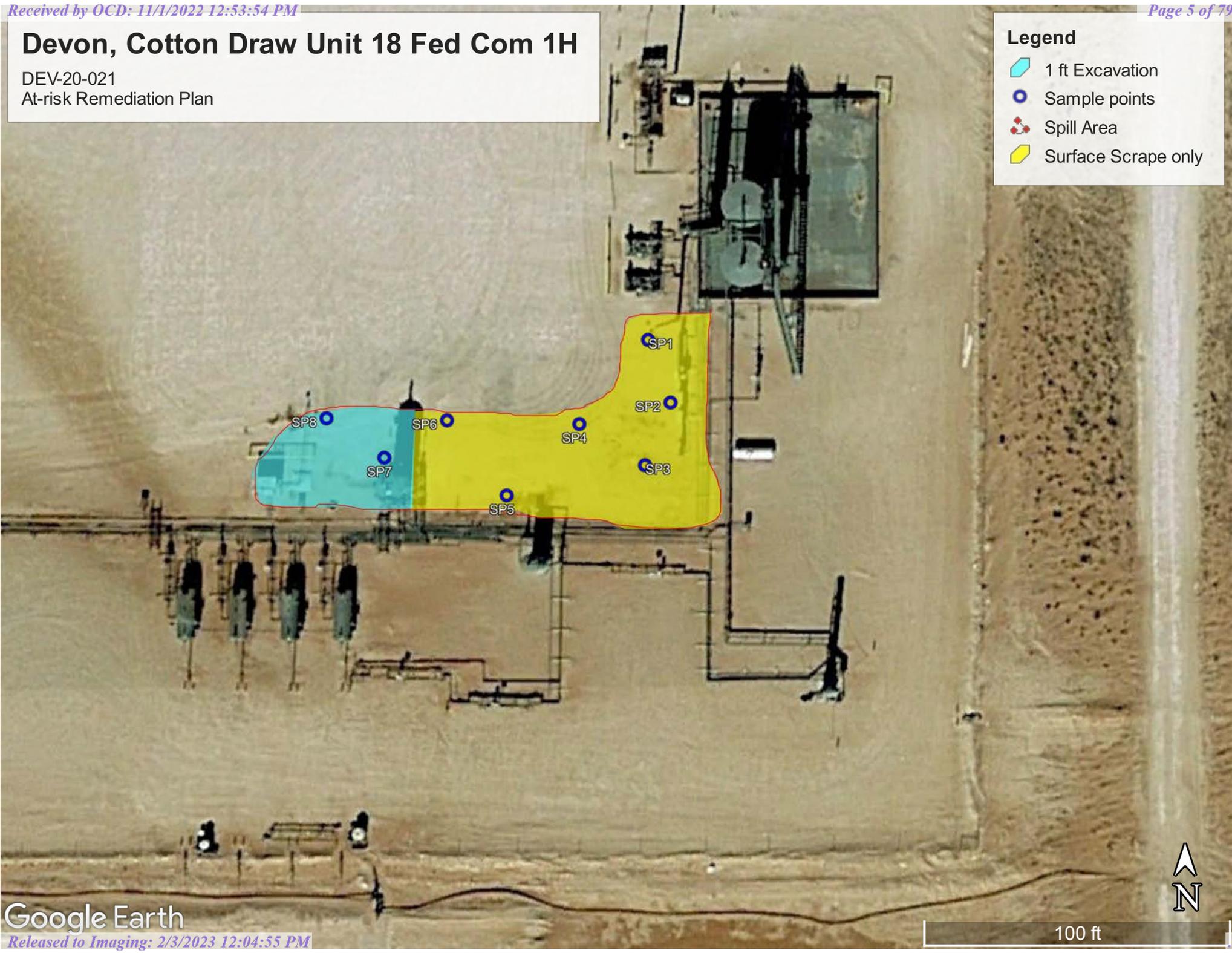
Map of Release with sample locations  
 Photos of release and remediation  
 BLM Cave Karst Map  
 Laboratory Analysis  
 C-141, pages 3-6

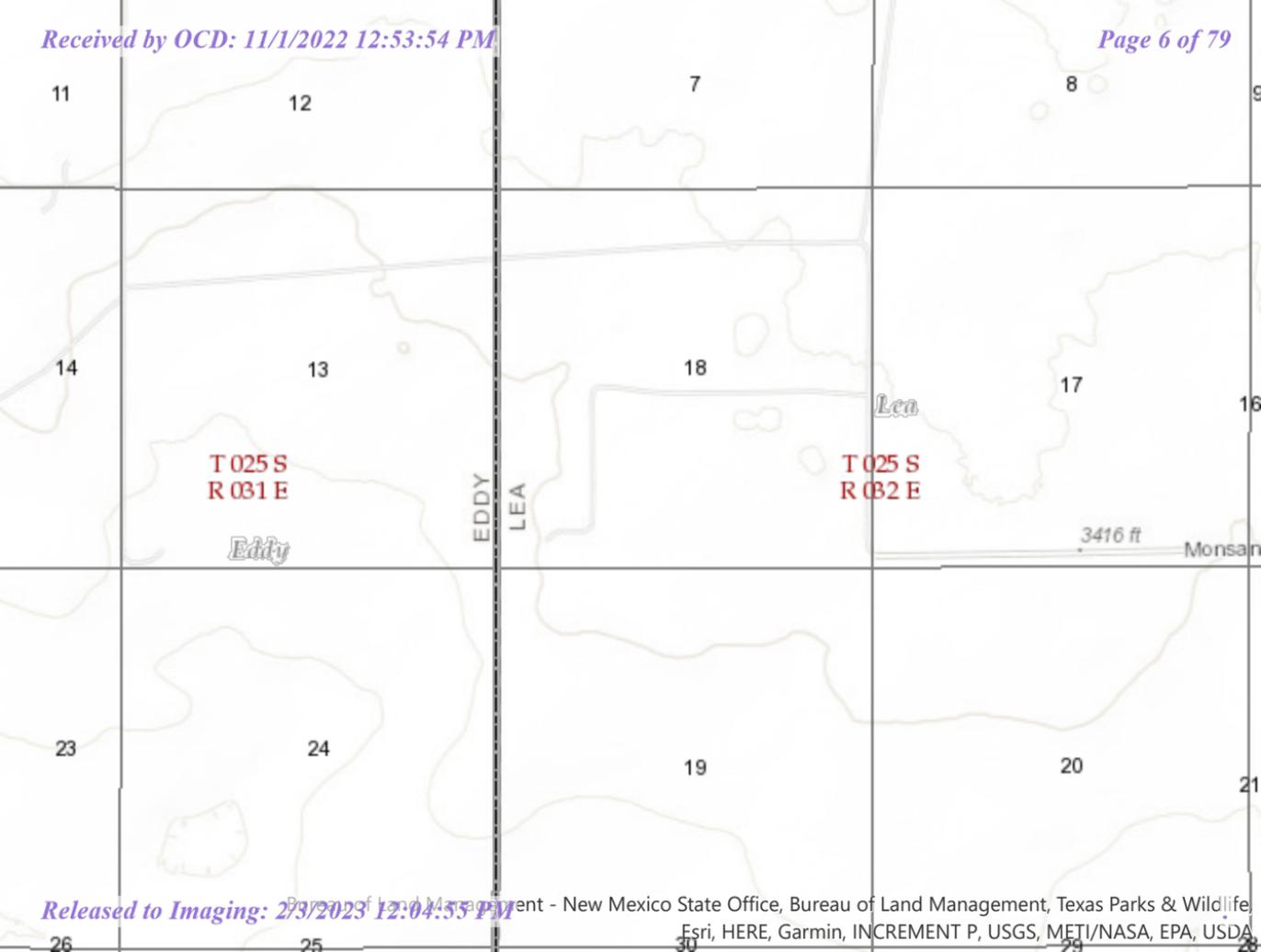
# Devon, Cotton Draw Unit 18 Fed Com 1H

DEV-20-021  
At-risk Remediation Plan

**Legend**

-  1 ft Excavation
-  Sample points
-  Spill Area
-  Surface Scrape only





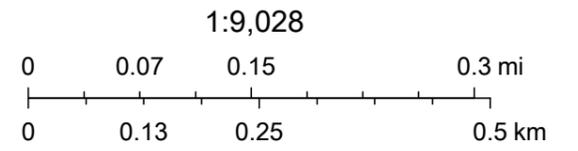
# OSE PUBLIC PRINT



8/19/2021, 11:29:58 AM

 OSE District Boundary

 SiteBoundaries



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

## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

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

Click to hide state-specific text

\* IMPORTANT: [Next Generation Station Page](#)

### Search Results -- No sites found

No sites were found for groundwater level data using your search criteria.

The sites you requested may be available offline. For more information, contact [USGS Water Data Inquiries](#).

Site name contains string = 25S.32E

Minimum number of levels = 1

Use the "Back" button on your browser to change your search criteria.

# Devon Energy

CDU 18 Fed Com 1H  
Karst Map - Low  
UL M - Sec 18 - T25S - R 32E

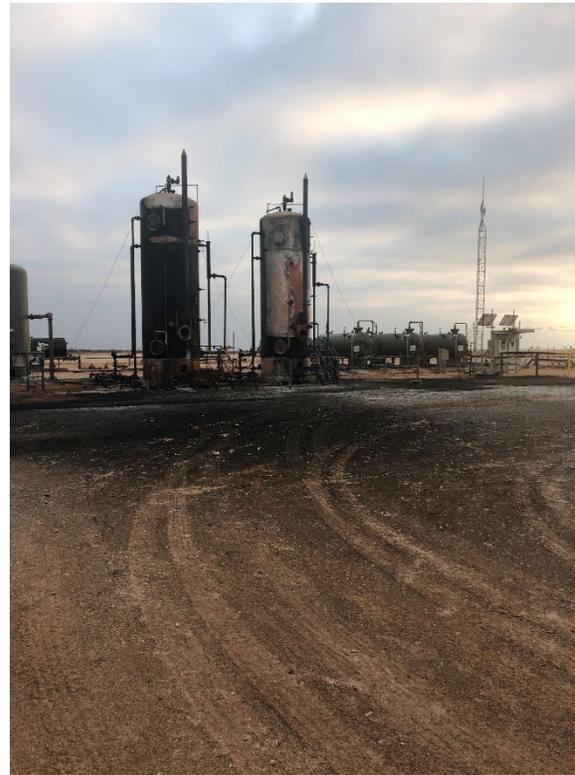
## Legend

-  1 ft Excavation
-  Feature 1
-  High
-  Low
-  Medium
-  Spill Area
-  Surface Scrape only



500 ft

DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS



**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS



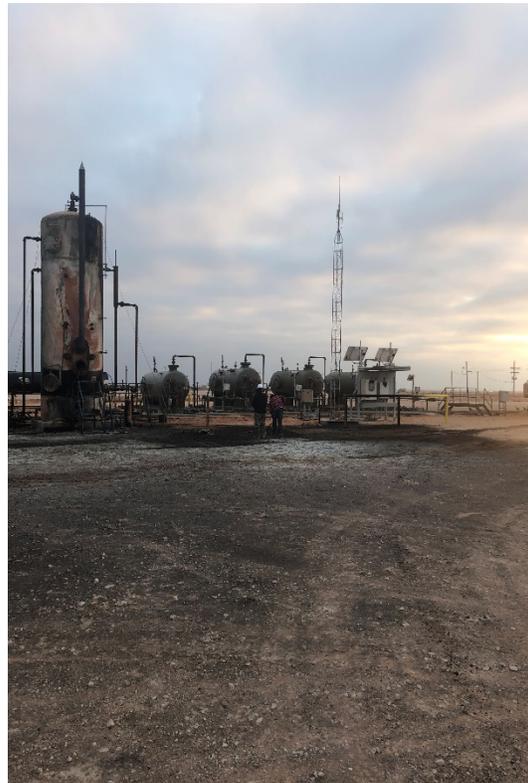
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COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



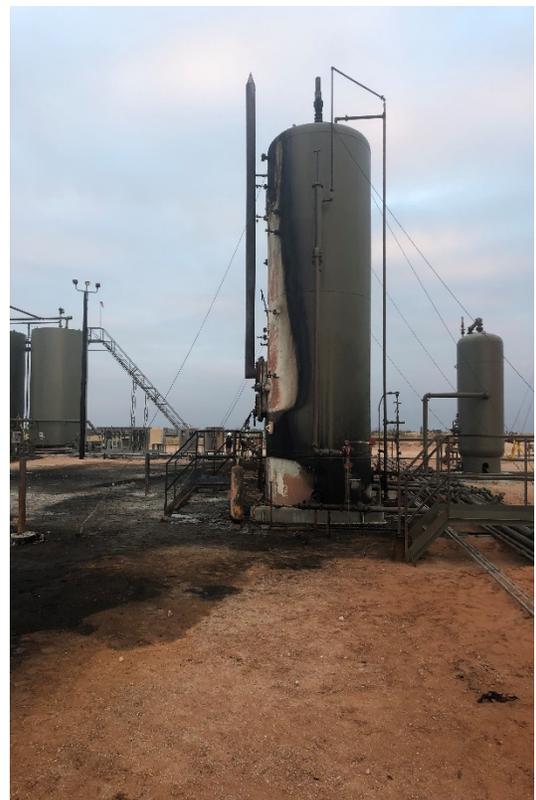
**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS



**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**



DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS



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COTTON DRAW 18 FIRE  
INITIAL PHOTOS



**DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS**

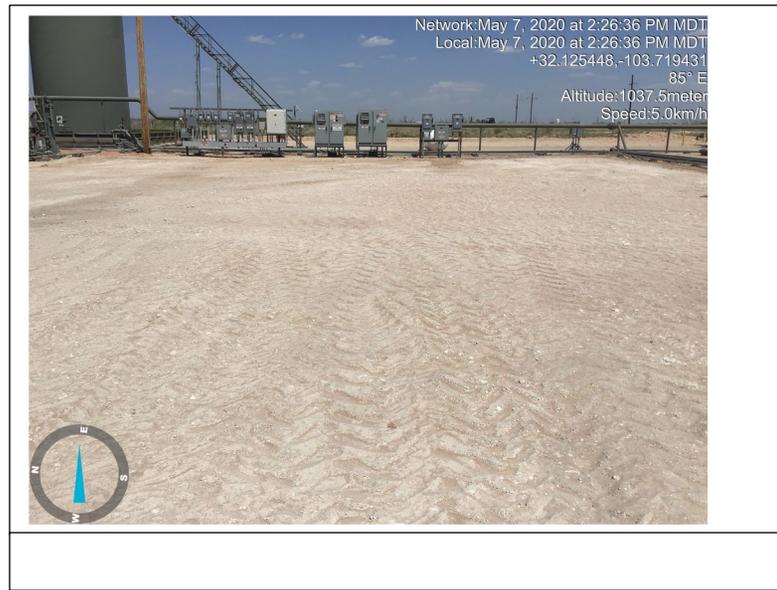
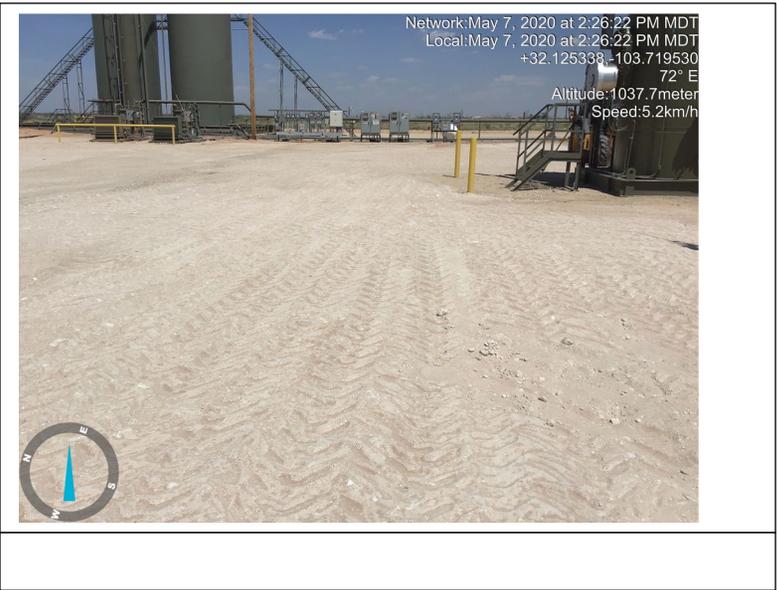
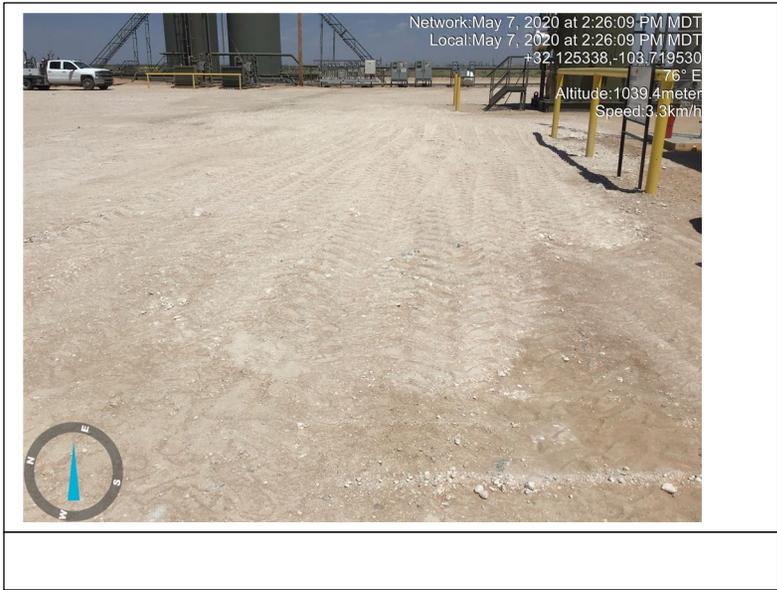


DEVON  
COTTON DRAW 18 FIRE  
INITIAL PHOTOS



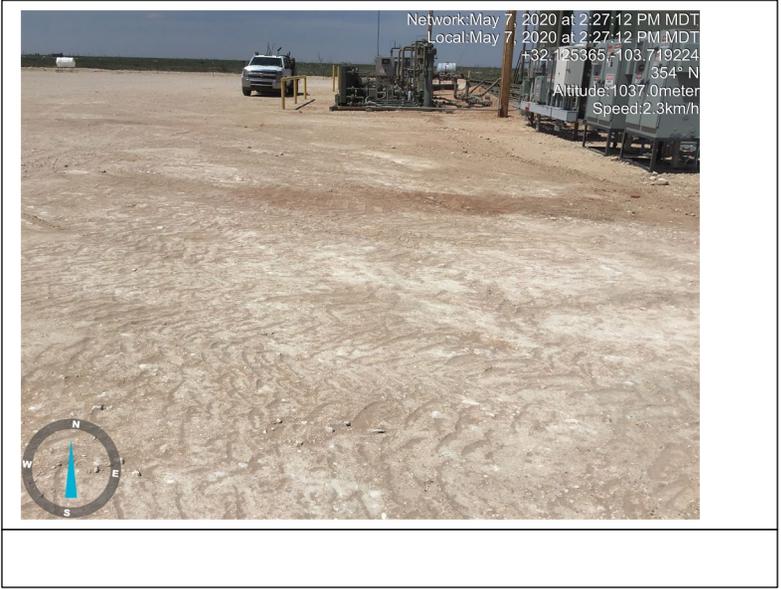
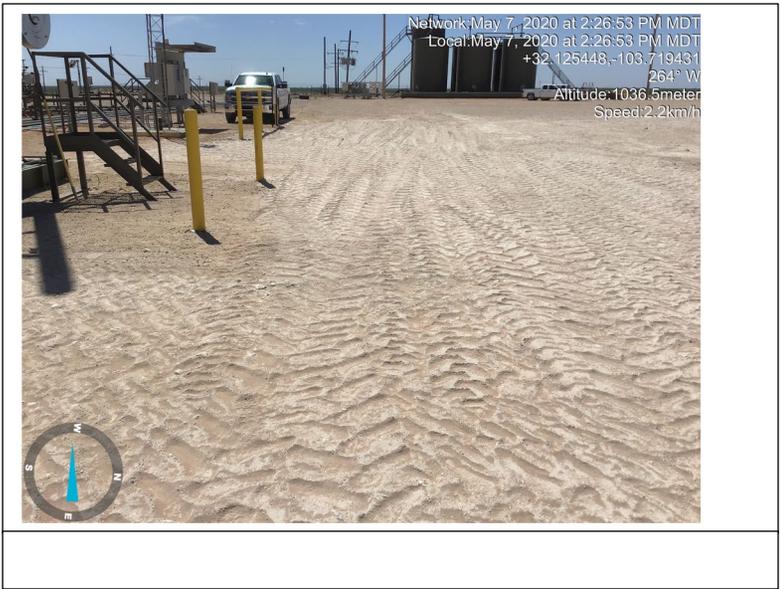
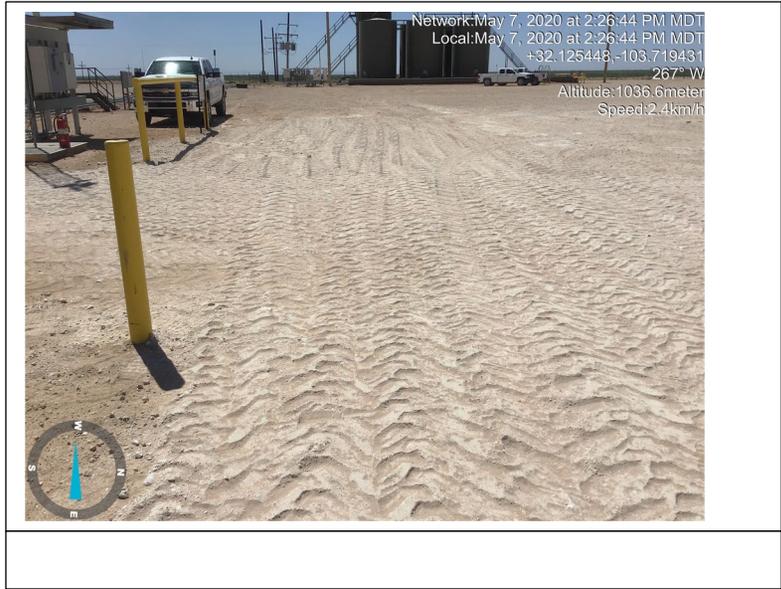
# Devon Energy

## CDU 18 Fed Com 1H Excavation & Remediation



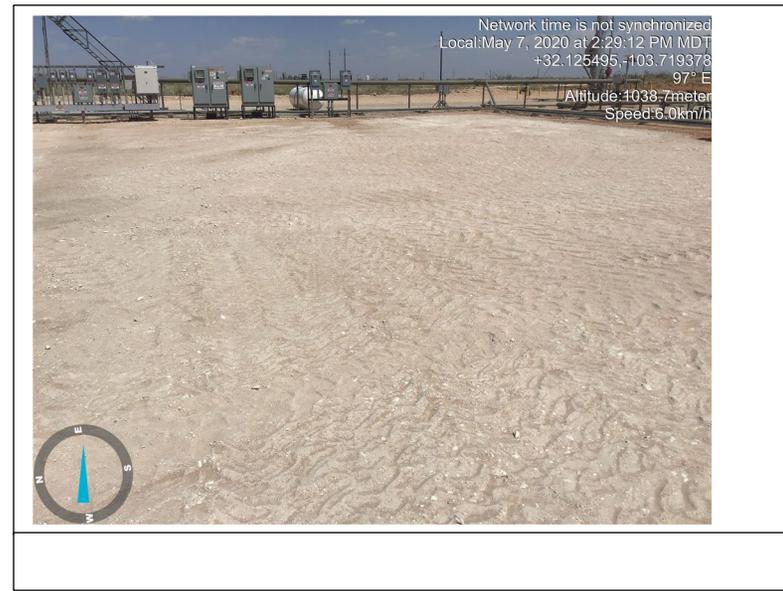
# Devon Energy

## CDU 18 Fed Com 1H Excavation & Remediation



# Devon Energy

## CDU 18 Fed Com 1H Excavation & Remediation





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

March 18, 2020

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

RE: Devon Cotton Draw Unit 18 Fed Cu 1h 1RP-5501

OrderNo.: 2003406

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/10/2020 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2003406

Date Reported: 3/18/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-1 Surface

Project: Devon Cotton Draw Unit 18 Fed Cu 1h 1

Collection Date: 3/6/2020 12:40:00 PM

Lab ID: 2003406-001

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/13/2020 12:31:23 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/13/2020 10:38:22 AM	51063
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/13/2020 10:38:22 AM	51063
Surr: DNOP	106	55.1-146		%Rec	1	3/13/2020 10:38:22 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2020 7:20:39 PM	51041
Surr: BFB	87.4	66.6-105		%Rec	1	3/13/2020 7:20:39 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2020 7:20:39 PM	51041
Toluene	ND	0.048		mg/Kg	1	3/13/2020 7:20:39 PM	51041
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2020 7:20:39 PM	51041
Xylenes, Total	ND	0.096		mg/Kg	1	3/13/2020 7:20:39 PM	51041
Surr: 4-Bromofluorobenzene	94.2	80-120		%Rec	1	3/13/2020 7:20:39 PM	51041

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

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

## Analytical Report

Lab Order 2003406

Date Reported: 3/18/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-2 Surface

Project: Devon Cotton Draw Unit 18 Fed Cu 1h 1

Collection Date: 3/6/2020 12:50:00 PM

Lab ID: 2003406-002

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	610	60		mg/Kg	20	3/13/2020 1:08:25 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	54	10		mg/Kg	1	3/13/2020 10:47:27 AM	51063
Motor Oil Range Organics (MRO)	69	50		mg/Kg	1	3/13/2020 10:47:27 AM	51063
Surr: DNOP	109	55.1-146		%Rec	1	3/13/2020 10:47:27 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2020 7:44:05 PM	51041
Surr: BFB	83.5	66.6-105		%Rec	1	3/13/2020 7:44:05 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2020 7:44:05 PM	51041
Toluene	ND	0.048		mg/Kg	1	3/13/2020 7:44:05 PM	51041
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2020 7:44:05 PM	51041
Xylenes, Total	ND	0.097		mg/Kg	1	3/13/2020 7:44:05 PM	51041
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	3/13/2020 7:44:05 PM	51041

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

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

## Analytical Report

Lab Order 2003406

Date Reported: 3/18/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: AH-3 Surface

Project: Devon Cotton Draw Unit 18 Fed Cu 1h 1

Collection Date: 3/6/2020 1:00:00 PM

Lab ID: 2003406-003

Matrix: SOIL

Received Date: 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	400	60		mg/Kg	20	3/13/2020 1:45:29 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/13/2020 10:56:33 AM	51063
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2020 10:56:33 AM	51063
Surr: DNOP	119	55.1-146		%Rec	1	3/13/2020 10:56:33 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2020 10:04:57 PM	51041
Surr: BFB	82.9	66.6-105		%Rec	1	3/13/2020 10:04:57 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2020 10:04:57 PM	51041
Toluene	ND	0.049		mg/Kg	1	3/13/2020 10:04:57 PM	51041
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2020 10:04:57 PM	51041
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2020 10:04:57 PM	51041
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	3/13/2020 10:04:57 PM	51041

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

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

**Analytical Report**

Lab Order **2003406**

Date Reported: **3/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-4 Surface

**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1

**Collection Date:** 3/6/2020 1:10:00 PM

**Lab ID:** 2003406-004

**Matrix:** SOIL

**Received Date:** 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	610	60		mg/Kg	20	3/13/2020 1:57:49 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	56	9.7		mg/Kg	1	3/13/2020 11:05:39 AM	51063
Motor Oil Range Organics (MRO)	66	49		mg/Kg	1	3/13/2020 11:05:39 AM	51063
Surr: DNOP	110	55.1-146		%Rec	1	3/13/2020 11:05:39 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2020 10:28:31 PM	51041
Surr: BFB	88.4	66.6-105		%Rec	1	3/13/2020 10:28:31 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/13/2020 10:28:31 PM	51041
Toluene	ND	0.048		mg/Kg	1	3/13/2020 10:28:31 PM	51041
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2020 10:28:31 PM	51041
Xylenes, Total	ND	0.097		mg/Kg	1	3/13/2020 10:28:31 PM	51041
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	3/13/2020 10:28:31 PM	51041

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

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

**Analytical Report**

Lab Order **2003406**

Date Reported: **3/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-5 Surface

**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1

**Collection Date:** 3/6/2020 1:20:00 PM

**Lab ID:** 2003406-005

**Matrix:** SOIL

**Received Date:** 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	410	60		mg/Kg	20	3/13/2020 2:10:10 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/13/2020 11:14:44 AM	51063
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/13/2020 11:14:44 AM	51063
Surr: DNOP	113	55.1-146		%Rec	1	3/13/2020 11:14:44 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/13/2020 10:52:05 PM	51041
Surr: BFB	84.7	66.6-105		%Rec	1	3/13/2020 10:52:05 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/13/2020 10:52:05 PM	51041
Toluene	ND	0.047		mg/Kg	1	3/13/2020 10:52:05 PM	51041
Ethylbenzene	ND	0.047		mg/Kg	1	3/13/2020 10:52:05 PM	51041
Xylenes, Total	ND	0.094		mg/Kg	1	3/13/2020 10:52:05 PM	51041
Surr: 4-Bromofluorobenzene	90.6	80-120		%Rec	1	3/13/2020 10:52:05 PM	51041

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

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

**Analytical Report**

Lab Order **2003406**

Date Reported: **3/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-6 Surface

**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1

**Collection Date:** 3/6/2020 1:45:00 PM

**Lab ID:** 2003406-006

**Matrix:** SOIL

**Received Date:** 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	410	60		mg/Kg	20	3/13/2020 2:22:31 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/13/2020 11:23:51 AM	51063
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/13/2020 11:23:51 AM	51063
Surr: DNOP	121	55.1-146		%Rec	1	3/13/2020 11:23:51 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2020 11:15:38 PM	51041
Surr: BFB	89.7	66.6-105		%Rec	1	3/13/2020 11:15:38 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/13/2020 11:15:38 PM	51041
Toluene	ND	0.049		mg/Kg	1	3/13/2020 11:15:38 PM	51041
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2020 11:15:38 PM	51041
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2020 11:15:38 PM	51041
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	3/13/2020 11:15:38 PM	51041

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

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

**Analytical Report**

Lab Order **2003406**

Date Reported: **3/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-7 Surface

**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1

**Collection Date:** 3/6/2020 2:00:00 PM

**Lab ID:** 2003406-007

**Matrix:** SOIL

**Received Date:** 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1200	60		mg/Kg	20	3/13/2020 2:34:52 AM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	700	96		mg/Kg	10	3/13/2020 11:32:57 AM	51063
Motor Oil Range Organics (MRO)	860	480		mg/Kg	10	3/13/2020 11:32:57 AM	51063
Surr: DNOP	0	55.1-146	S	%Rec	10	3/13/2020 11:32:57 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/13/2020 11:39:10 PM	51041
Surr: BFB	85.2	66.6-105		%Rec	1	3/13/2020 11:39:10 PM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	3/13/2020 11:39:10 PM	51041
Toluene	ND	0.047		mg/Kg	1	3/13/2020 11:39:10 PM	51041
Ethylbenzene	ND	0.047		mg/Kg	1	3/13/2020 11:39:10 PM	51041
Xylenes, Total	ND	0.094		mg/Kg	1	3/13/2020 11:39:10 PM	51041
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	3/13/2020 11:39:10 PM	51041

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

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

**Analytical Report**

Lab Order **2003406**

Date Reported: **3/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** AH-8 Surface

**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1

**Collection Date:** 3/6/2020 2:20:00 PM

**Lab ID:** 2003406-008

**Matrix:** SOIL

**Received Date:** 3/10/2020 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	2500	150		mg/Kg	50	3/14/2020 6:12:23 PM	51072
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	1400	98		mg/Kg	10	3/13/2020 11:42:03 AM	51063
Motor Oil Range Organics (MRO)	1900	490		mg/Kg	10	3/13/2020 11:42:03 AM	51063
Surr: DNOP	0	55.1-146	S	%Rec	10	3/13/2020 11:42:03 AM	51063
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/14/2020 12:02:45 AM	51041
Surr: BFB	85.0	66.6-105		%Rec	1	3/14/2020 12:02:45 AM	51041
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	3/14/2020 12:02:45 AM	51041
Toluene	ND	0.046		mg/Kg	1	3/14/2020 12:02:45 AM	51041
Ethylbenzene	ND	0.046		mg/Kg	1	3/14/2020 12:02:45 AM	51041
Xylenes, Total	ND	0.092		mg/Kg	1	3/14/2020 12:02:45 AM	51041
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	3/14/2020 12:02:45 AM	51041

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003406

18-Mar-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1RP-550

Sample ID: <b>MB-51072</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51072</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317744</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51072</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51072</b>	RunNo: <b>67231</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/12/2020</b>	SeqNo: <b>2317745</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003406

18-Mar-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1RP-550

Sample ID: <b>LCS-51063</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51063</b>	RunNo: <b>67261</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2317963</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.5		5.000		90.0	55.1	146			

Sample ID: <b>MB-51063</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51063</b>	RunNo: <b>67261</b>								
Prep Date: <b>3/12/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2317965</b>	Units: <b>mg/Kg</b>							
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	9.7		10.00		97.3	55.1	146			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003406

18-Mar-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1RP-550

Sample ID: <b>mb-51041</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318736</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.0	66.6	105			

Sample ID: <b>ics-51041</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318737</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	80	120			
Surr: BFB	950		1000		95.4	66.6	105			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003406

18-Mar-20

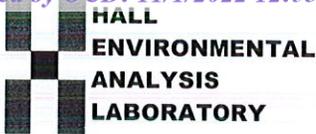
**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw Unit 18 Fed Cu 1h 1RP-550

Sample ID: <b>mb-51041</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318846</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	80	120			

Sample ID: <b>LCS-51041</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51041</b>	RunNo: <b>67276</b>								
Prep Date: <b>3/11/2020</b>	Analysis Date: <b>3/13/2020</b>	SeqNo: <b>2318847</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Safety Env Solutions Work Order Number: 2003406 RcptNo: 1

Received By: Juan Rojas 3/10/2020 8:37:00 AM
Completed By: Juan Rojas 3/10/2020 12:02:38 PM
Reviewed By: LB 3/10/2020

Chain of Custody

- 1. Is Chain of Custody sufficiently complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted?
Checked by: DAD 3/10/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Allen Bob Date: 3/10/20
By Whom: Leah Baca Via: [ ] eMail [checked] Phone [ ] Fax [ ] In Person
Regarding: sample name on bottles SP
Client Instructions: Go with names on COC

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107



Turn-Around Time: 5 day Turn

Standard  Rush

Project Name: Devon Cotton Draw Unit 18 Feb loc 1h

Project #: RP-5501

Project #: Dev-20-021

Project Manager: Allen Bsb

Sampler: Jon Feary

On Ice:  Yes  No to 3/10/20

# of Coolers: 2

Cooler Temp (including CF): 2.1 + 0.1 = 2.5 (°C)

Container Type and #	Preservative Type	HEAL No.
1	<u>flow</u>	<u>2003406</u>
1	<u>Next</u>	<u>-001</u>
1		<u>-002</u>
1		<u>-003</u>
1		<u>-004</u>
1		<u>-005</u>
1		<u>-006</u>
1		<u>-007</u>
1		<u>-008</u>

Received by: [Signature] Date: 3/10/20 Time: 1600

Relinquished by: Jon Feary

Received by: [Signature] Date: 3/10/20 Time: 8:37

## Chain-of-Custody Record

Client: Study + Environmental Solutions

Mailing Address: 703 E Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

QA/QC Package:  Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  NELAC  Other

EDD (Type):

Date	Time	Matrix	Sample Name
<u>03/06</u>	<u>1240</u>	<u>S</u>	<u>Att 1 Surface</u>
<u>1250</u>	<u>S</u>	<u>Att 2 Surface</u>	
<u>1300</u>	<u>S</u>	<u>Att 3 Surface</u>	
<u>1310</u>	<u>S</u>	<u>Att 4 Surface</u>	
<u>1320</u>	<u>S</u>	<u>Att 5 Surface</u>	
<u>1345</u>	<u>S</u>	<u>Att 6 Surface</u>	
<u>1400</u>	<u>S</u>	<u>Att 7 Surface</u>	
<u>03/06</u>	<u>1420</u>	<u>S</u>	<u>Att 8 Surface</u>

Date: 03/09 Time: 0800

Date: 3/9/20 Time: 1900

### Analysis Request

<input checked="" type="checkbox"/>	BTEX / MTBE / TMB's (8021)
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)
<input type="checkbox"/>	8081 Pesticides/8082 PCB's
<input type="checkbox"/>	EDB (Method 504.1)
<input type="checkbox"/>	PAHs by 8310 or 8270SIMS
<input type="checkbox"/>	RCRA 8 Metals
<input type="checkbox"/>	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>
<input type="checkbox"/>	8260 (VOA)
<input type="checkbox"/>	8270 (Semi-VOA)
<input type="checkbox"/>	Total Coliform (Present/Absent)

Remarks:

X Chlorides



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

April 07, 2020

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

RE: Cotton Draw 18 Fed Com 1H Devon WO 20715202

OrderNo.: 2004068

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/2/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2004068**

Date Reported: **4/7/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-7 1ft

**Project:** Cotton Draw 18 Fed Com 1H Devon WO

**Collection Date:** 4/1/2020 9:00:00 AM

**Lab ID:** 2004068-001

**Matrix:** SOIL

**Received Date:** 4/2/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	74	60		mg/Kg	20	4/5/2020 10:32:22 PM	51572
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2020 7:30:21 PM	51530
Surr: BFB	99.4	70-130		%Rec	1	4/5/2020 7:30:21 PM	51530
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/5/2020 5:38:10 PM	51541
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/5/2020 5:38:10 PM	51541
Surr: DNOP	95.2	55.1-146		%Rec	1	4/5/2020 5:38:10 PM	51541
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	4/5/2020 7:30:21 PM	51530
Toluene	ND	0.049		mg/Kg	1	4/5/2020 7:30:21 PM	51530
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2020 7:30:21 PM	51530
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2020 7:30:21 PM	51530
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	4/5/2020 7:30:21 PM	51530
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/5/2020 7:30:21 PM	51530
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	4/5/2020 7:30:21 PM	51530
Surr: Toluene-d8	99.2	70-130		%Rec	1	4/5/2020 7:30:21 PM	51530

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

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

**Analytical Report**

Lab Order **2004068**

Date Reported: **4/7/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-8 1ft

**Project:** Cotton Draw 18 Fed Com 1H Devon WO

**Collection Date:** 4/1/2020 9:20:00 AM

**Lab ID:** 2004068-002

**Matrix:** SOIL

**Received Date:** 4/2/2020 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	85	59		mg/Kg	20	4/5/2020 10:44:47 PM	51572
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2020 7:59:24 PM	51530
Surr: BFB	99.0	70-130		%Rec	1	4/5/2020 7:59:24 PM	51530
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/5/2020 6:02:37 PM	51541
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/5/2020 6:02:37 PM	51541
Surr: DNOP	93.9	55.1-146		%Rec	1	4/5/2020 6:02:37 PM	51541
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	4/5/2020 7:59:24 PM	51530
Toluene	ND	0.049		mg/Kg	1	4/5/2020 7:59:24 PM	51530
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2020 7:59:24 PM	51530
Xylenes, Total	ND	0.097		mg/Kg	1	4/5/2020 7:59:24 PM	51530
Surr: 1,2-Dichloroethane-d4	91.9	70-130		%Rec	1	4/5/2020 7:59:24 PM	51530
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	4/5/2020 7:59:24 PM	51530
Surr: Dibromofluoromethane	95.5	70-130		%Rec	1	4/5/2020 7:59:24 PM	51530
Surr: Toluene-d8	102	70-130		%Rec	1	4/5/2020 7:59:24 PM	51530

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2004068

07-Apr-20

**Client:** Safety & Environmental Solutions  
**Project:** Cotton Draw 18 Fed Com 1H Devon WO 20715

Sample ID: <b>MB-51572</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51572</b>	RunNo: <b>67876</b>								
Prep Date: <b>4/5/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2344946</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-51572</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51572</b>	RunNo: <b>67876</b>								
Prep Date: <b>4/5/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2344947</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2004068

07-Apr-20

**Client:** Safety & Environmental Solutions  
**Project:** Cotton Draw 18 Fed Com 1H Devon WO 20715

Sample ID: <b>MB-51541</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51541</b>	RunNo: <b>67859</b>								
Prep Date: <b>4/3/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2344068</b>	Units: <b>mg/Kg</b>							
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	9.0		10.00		89.6	55.1	146			

Sample ID: <b>LCS-51541</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51541</b>	RunNo: <b>67859</b>								
Prep Date: <b>4/3/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2344069</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.3	70	130			
Surr: DNOP	4.3		5.000		85.8	55.1	146			

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

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

**Qualifiers:**

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

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

WO#: 2004068

07-Apr-20

**Client:** Safety & Environmental Solutions  
**Project:** Cotton Draw 18 Fed Com 1H Devon WO 20715

Sample ID: <b>mb-51530</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51530</b>	RunNo: <b>67853</b>								
Prep Date: <b>4/2/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2343895</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		89.1	70	130			
Surr: Toluene-d8	0.49		0.5000		97.3	70	130			

Sample ID: <b>ics-51530</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>51530</b>	RunNo: <b>67853</b>								
Prep Date: <b>4/2/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2343896</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.5	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			

Sample ID: <b>mb-51487</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51487</b>	RunNo: <b>67881</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2345162</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.0	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.2	70	130			
Surr: Toluene-d8	0.49		0.5000		98.8	70	130			

Sample ID: <b>ics-51487</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>51487</b>	RunNo: <b>67881</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2345164</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.48		0.5000		97.0	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2004068

07-Apr-20

**Client:** Safety & Environmental Solutions  
**Project:** Cotton Draw 18 Fed Com 1H Devon WO 20715

Sample ID: <b>mb-51530</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51530</b>	RunNo: <b>67853</b>								
Prep Date: <b>4/2/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2343932</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.5	70	130			

Sample ID: <b>ics-51530</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51530</b>	RunNo: <b>67853</b>								
Prep Date: <b>4/2/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2343933</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	70	130			
Surr: BFB	500		500.0		101	70	130			

Sample ID: <b>mb-51487</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>51487</b>	RunNo: <b>67881</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2345213</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		98.6	70	130			

Sample ID: <b>ics-51487</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>51487</b>	RunNo: <b>67881</b>								
Prep Date: <b>4/1/2020</b>	Analysis Date: <b>4/5/2020</b>	SeqNo: <b>2345214</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	500		500.0		99.3	70	130			

**Qualifiers:**

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



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

### Sample Log-In Check List

Client Name: Safety Env Solutions      Work Order Number: 2004068      RcptNo: 1

Received By: **Isaiah Ortiz**      4/2/2020 8:30:00 AM      *I-Ortiz*  
 Completed By: **John Caldwell**      4/2/2020 9:52:50 AM      *John Caldwell*  
 Reviewed By: *IC*      *4/2/20*

**Chain of Custody**

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

**Log In**

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

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: *DAD 4/2/20*

**Special Handling (if applicable)**

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

**Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	1.2	Good				





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

May 18, 2020

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

RE: Devon Cotton Draw 18 1 WO 20715202

OrderNo.: 2005394

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 14 sample(s) on 5/9/2020 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-1 Bottom 1FT

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 9:10:00 AM

**Lab ID:** 2005394-001

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	59		mg/Kg	20	5/13/2020 3:39:29 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/12/2020 3:12:42 PM	52384
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 3:12:42 PM	52384
Surr: DNOP	99.2	55.1-146		%Rec	1	5/12/2020 3:12:42 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 2:10:16 AM	52369
Surr: BFB	99.1	66.6-105		%Rec	1	5/12/2020 2:10:16 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:10:16 AM	52369
Toluene	ND	0.050		mg/Kg	1	5/12/2020 2:10:16 AM	52369
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 2:10:16 AM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 2:10:16 AM	52369
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	5/12/2020 2:10:16 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-2 Bottom 1FT

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 9:30:00 AM

**Lab ID:** 2005394-002

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 4:16:44 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/12/2020 4:03:16 PM	52384
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/12/2020 4:03:16 PM	52384
Surr: DNOP	101	55.1-146		%Rec	1	5/12/2020 4:03:16 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 2:34:13 AM	52369
Surr: BFB	97.0	66.6-105		%Rec	1	5/12/2020 2:34:13 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:34:13 AM	52369
Toluene	ND	0.049		mg/Kg	1	5/12/2020 2:34:13 AM	52369
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 2:34:13 AM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 2:34:13 AM	52369
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	5/12/2020 2:34:13 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-3 North Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 9:40:00 AM

**Lab ID:** 2005394-003

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	61	60		mg/Kg	20	5/13/2020 4:29:08 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2020 4:27:21 PM	52384
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/12/2020 4:27:21 PM	52384
Surr: DNOP	97.6	55.1-146		%Rec	1	5/12/2020 4:27:21 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 2:57:50 AM	52369
Surr: BFB	98.3	66.6-105		%Rec	1	5/12/2020 2:57:50 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:57:50 AM	52369
Toluene	ND	0.050		mg/Kg	1	5/12/2020 2:57:50 AM	52369
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 2:57:50 AM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 2:57:50 AM	52369
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	5/12/2020 2:57:50 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-4 North Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 9:45:00 AM

**Lab ID:** 2005394-004

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 4:41:32 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2020 4:51:29 PM	52384
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 4:51:29 PM	52384
Surr: DNOP	96.6	55.1-146		%Rec	1	5/12/2020 4:51:29 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 3:21:43 AM	52369
Surr: BFB	99.9	66.6-105		%Rec	1	5/12/2020 3:21:43 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/12/2020 3:21:43 AM	52369
Toluene	ND	0.049		mg/Kg	1	5/12/2020 3:21:43 AM	52369
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 3:21:43 AM	52369
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 3:21:43 AM	52369
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	5/12/2020 3:21:43 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-5 West Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 9:55:00 AM

**Lab ID:** 2005394-005

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 4:53:56 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/12/2020 5:15:36 PM	52384
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/12/2020 5:15:36 PM	52384
Surr: DNOP	98.1	55.1-146		%Rec	1	5/12/2020 5:15:36 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 3:45:38 AM	52369
Surr: BFB	102	66.6-105		%Rec	1	5/12/2020 3:45:38 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/12/2020 3:45:38 AM	52369
Toluene	ND	0.049		mg/Kg	1	5/12/2020 3:45:38 AM	52369
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 3:45:38 AM	52369
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 3:45:38 AM	52369
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	5/12/2020 3:45:38 AM	52369

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

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

## Analytical Report

Lab Order 2005394

Date Reported: 5/18/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety &amp; Environmental Solutions

Client Sample ID: SP-6 South Wall

Project: Devon Cotton Draw 18 1 WO 20715202

Collection Date: 5/7/2020 10:15:00 AM

Lab ID: 2005394-006

Matrix: SOIL

Received Date: 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	5/13/2020 5:06:21 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/12/2020 5:39:57 PM	52384
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/12/2020 5:39:57 PM	52384
Surr: DNOP	99.6	55.1-146		%Rec	1	5/12/2020 5:39:57 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 4:09:30 AM	52369
Surr: BFB	100	66.6-105		%Rec	1	5/12/2020 4:09:30 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/12/2020 4:09:30 AM	52369
Toluene	ND	0.049		mg/Kg	1	5/12/2020 4:09:30 AM	52369
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 4:09:30 AM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 4:09:30 AM	52369
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	5/12/2020 4:09:30 AM	52369

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

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

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**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-7 South Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 10:25:00 AM

**Lab ID:** 2005394-007

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 5:18:46 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>CLP</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/12/2020 6:04:25 PM	52384
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/12/2020 6:04:25 PM	52384
Surr: DNOP	99.0	55.1-146		%Rec	1	5/12/2020 6:04:25 PM	52384
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 4:32:56 AM	52369
Surr: BFB	101	66.6-105		%Rec	1	5/12/2020 4:32:56 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 4:32:56 AM	52369
Toluene	ND	0.050		mg/Kg	1	5/12/2020 4:32:56 AM	52369
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 4:32:56 AM	52369
Xylenes, Total	ND	0.10		mg/Kg	1	5/12/2020 4:32:56 AM	52369
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	5/12/2020 4:32:56 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-8 Bottom

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 11:00:00 AM

**Lab ID:** 2005394-008

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 5:31:10 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/12/2020 2:25:13 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 2:25:13 PM	52392
Surr: DNOP	100	55.1-146		%Rec	1	5/12/2020 2:25:13 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 4:56:18 AM	52369
Surr: BFB	95.8	66.6-105		%Rec	1	5/12/2020 4:56:18 AM	52369
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 4:56:18 AM	52369
Toluene	ND	0.050		mg/Kg	1	5/12/2020 4:56:18 AM	52369
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 4:56:18 AM	52369
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 4:56:18 AM	52369
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	5/12/2020 4:56:18 AM	52369

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-9 Bottom

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 11:20:00 AM

**Lab ID:** 2005394-009

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 5:43:34 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/12/2020 4:03:03 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 4:03:03 PM	52392
Surr: DNOP	95.7	55.1-146		%Rec	1	5/12/2020 4:03:03 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 10:53:19 AM	52375
Surr: BFB	98.6	66.6-105		%Rec	1	5/12/2020 10:53:19 AM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 10:53:19 AM	52375
Toluene	ND	0.049		mg/Kg	1	5/12/2020 10:53:19 AM	52375
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 10:53:19 AM	52375
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 10:53:19 AM	52375
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	5/12/2020 10:53:19 AM	52375

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-10 Bottom

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 12:10:00 PM

**Lab ID:** 2005394-010

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 5:55:59 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/12/2020 4:27:23 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 4:27:23 PM	52392
Surr: DNOP	79.5	55.1-146		%Rec	1	5/12/2020 4:27:23 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 12:03:59 PM	52375
Surr: BFB	102	66.6-105		%Rec	1	5/12/2020 12:03:59 PM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 12:03:59 PM	52375
Toluene	ND	0.049		mg/Kg	1	5/12/2020 12:03:59 PM	52375
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 12:03:59 PM	52375
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 12:03:59 PM	52375
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	5/12/2020 12:03:59 PM	52375

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-11 Bottom

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 1:00:00 PM

**Lab ID:** 2005394-011

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 6:08:23 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/12/2020 4:51:47 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 4:51:47 PM	52392
Surr: DNOP	90.2	55.1-146		%Rec	1	5/12/2020 4:51:47 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 1:14:42 PM	52375
Surr: BFB	99.0	66.6-105		%Rec	1	5/12/2020 1:14:42 PM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 1:14:42 PM	52375
Toluene	ND	0.049		mg/Kg	1	5/12/2020 1:14:42 PM	52375
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 1:14:42 PM	52375
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 1:14:42 PM	52375
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	5/12/2020 1:14:42 PM	52375

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-12 North Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 11:50:00 AM

**Lab ID:** 2005394-012

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/13/2020 6:45:37 PM	52432
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/12/2020 5:16:23 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 5:16:23 PM	52392
Surr: DNOP	86.4	55.1-146		%Rec	1	5/12/2020 5:16:23 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 1:38:27 PM	52375
Surr: BFB	99.1	66.6-105		%Rec	1	5/12/2020 1:38:27 PM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 1:38:27 PM	52375
Toluene	ND	0.049		mg/Kg	1	5/12/2020 1:38:27 PM	52375
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 1:38:27 PM	52375
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 1:38:27 PM	52375
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	5/12/2020 1:38:27 PM	52375

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-13 West Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 2:10:00 PM

**Lab ID:** 2005394-013

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	5/15/2020 5:54:00 PM	52493
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/12/2020 5:41:16 PM	52392
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/12/2020 5:41:16 PM	52392
Surr: DNOP	110	55.1-146		%Rec	1	5/12/2020 5:41:16 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/12/2020 2:01:53 PM	52375
Surr: BFB	99.0	66.6-105		%Rec	1	5/12/2020 2:01:53 PM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:01:53 PM	52375
Toluene	ND	0.049		mg/Kg	1	5/12/2020 2:01:53 PM	52375
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2020 2:01:53 PM	52375
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2020 2:01:53 PM	52375
Surr: 4-Bromofluorobenzene	94.4	80-120		%Rec	1	5/12/2020 2:01:53 PM	52375

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

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

**Analytical Report**

Lab Order **2005394**

Date Reported: **5/18/2020**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Safety & Environmental Solutions

**Client Sample ID:** SP-14 North Wall

**Project:** Devon Cotton Draw 18 1 WO 20715202

**Collection Date:** 5/7/2020 2:20:00 PM

**Lab ID:** 2005394-014

**Matrix:** SOIL

**Received Date:** 5/9/2020 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	63	60		mg/Kg	20	5/15/2020 6:06:25 PM	52493
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/12/2020 6:06:09 PM	52392
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/12/2020 6:06:09 PM	52392
Surr: DNOP	85.8	55.1-146		%Rec	1	5/12/2020 6:06:09 PM	52392
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/12/2020 2:25:22 PM	52375
Surr: BFB	99.8	66.6-105		%Rec	1	5/12/2020 2:25:22 PM	52375
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/12/2020 2:25:22 PM	52375
Toluene	ND	0.050		mg/Kg	1	5/12/2020 2:25:22 PM	52375
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2020 2:25:22 PM	52375
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2020 2:25:22 PM	52375
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	5/12/2020 2:25:22 PM	52375

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>MB-52432</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>52432</b>	RunNo: <b>68855</b>								
Prep Date: <b>5/13/2020</b>	Analysis Date: <b>5/13/2020</b>	SeqNo: <b>2383894</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5	15.00	0	0	50.4	161			S

Sample ID: <b>LCS-52432</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52432</b>	RunNo: <b>68855</b>								
Prep Date: <b>5/13/2020</b>	Analysis Date: <b>5/13/2020</b>	SeqNo: <b>2383895</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID: <b>MB-52493</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52493</b>	RunNo: <b>68940</b>								
Prep Date: <b>5/15/2020</b>	Analysis Date: <b>5/15/2020</b>	SeqNo: <b>2386107</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-52493</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52493</b>	RunNo: <b>68940</b>								
Prep Date: <b>5/15/2020</b>	Analysis Date: <b>5/15/2020</b>	SeqNo: <b>2386108</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>LCS-52392</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52392</b>	RunNo: <b>68810</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2381688</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	70	130			
Surr: DNOP	3.9		5.000		77.4	55.1	146			

Sample ID: <b>MB-52392</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52392</b>	RunNo: <b>68810</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2381689</b>	Units: <b>mg/Kg</b>							
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	9.9		10.00		98.6	55.1	146			

Sample ID: <b>MB-52384</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52384</b>	RunNo: <b>68819</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2381742</b>	Units: <b>mg/Kg</b>							
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	9.2		10.00		92.2	55.1	146			

Sample ID: <b>LCS-52384</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52384</b>	RunNo: <b>68819</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2381743</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	70	130			
Surr: DNOP	4.1		5.000		82.3	55.1	146			

Sample ID: <b>2005394-008AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-8 Bottom</b>	Batch ID: <b>52392</b>	RunNo: <b>68810</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382996</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.31	0	103	47.4	136			
Surr: DNOP	4.6		4.831		94.4	55.1	146			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>2005394-008AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SP-8 Bottom</b>	Batch ID: <b>52392</b>	RunNo: <b>68810</b>								
Prep Date: <b>5/11/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382997</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.9	49.50	0	107	47.4	136	6.41	43.4	
Surr: DNOP	4.9		4.950		98.3	55.1	146	0	0	

Sample ID: <b>LCS-52417</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52417</b>	RunNo: <b>68847</b>								
Prep Date: <b>5/12/2020</b>	Analysis Date: <b>5/13/2020</b>	SeqNo: <b>2383136</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	55.1	146			

Sample ID: <b>MB-52417</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52417</b>	RunNo: <b>68847</b>								
Prep Date: <b>5/12/2020</b>	Analysis Date: <b>5/13/2020</b>	SeqNo: <b>2383137</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	55.1	146			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>mb-52369</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52369</b>	RunNo: <b>68802</b>								
Prep Date: <b>5/9/2020</b>	Analysis Date: <b>5/11/2020</b>	SeqNo: <b>2380989</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	66.6	105			

Sample ID: <b>ics-52369</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52369</b>	RunNo: <b>68802</b>								
Prep Date: <b>5/9/2020</b>	Analysis Date: <b>5/11/2020</b>	SeqNo: <b>2380990</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	80	120			
Surr: BFB	1100		1000		106	66.6	105			S

Sample ID: <b>mb-52375</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382289</b>	Units: <b>mg/Kg</b>							
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		101	66.6	105			

Sample ID: <b>ics-52375</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382290</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.6	80	120			
Surr: BFB	1100		1000		107	66.6	105			S

Sample ID: <b>2005394-010ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-10 Bottom</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382293</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.49	0	87.6	80	120			
Surr: BFB	1100		979.4		111	66.6	105			S

Sample ID: <b>2005394-010amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-10 Bottom</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382294</b>	Units: <b>mg/Kg</b>							
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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>2005394-010amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>SP-10 Bottom</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382294</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.65	0	88.8	80	120	2.09	20	
Surr: BFB	1100		986.2		110	66.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>mb-52369</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52369</b>	RunNo: <b>68802</b>								
Prep Date: <b>5/9/2020</b>	Analysis Date: <b>5/11/2020</b>	SeqNo: <b>2381030</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			

Sample ID: <b>LCS-52369</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52369</b>	RunNo: <b>68802</b>								
Prep Date: <b>5/9/2020</b>	Analysis Date: <b>5/11/2020</b>	SeqNo: <b>2381031</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID: <b>mb-52375</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382359</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	80	120			

Sample ID: <b>LCS-52375</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382360</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.5	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005394

18-May-20

**Client:** Safety & Environmental Solutions  
**Project:** Devon Cotton Draw 18 1 WO 20715202

Sample ID: <b>2005394-009ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-9 Bottom</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382362</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9625	0	92.1	78.5	119			
Toluene	0.96	0.048	0.9625	0	99.6	75.7	123			
Ethylbenzene	0.98	0.048	0.9625	0	102	74.3	126			
Xylenes, Total	2.9	0.096	2.887	0	101	72.9	130			
Surr: 4-Bromofluorobenzene	0.92		0.9625		95.5	80	120			

Sample ID: <b>2005394-009amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SP-9 Bottom</b>	Batch ID: <b>52375</b>	RunNo: <b>68813</b>								
Prep Date: <b>5/10/2020</b>	Analysis Date: <b>5/12/2020</b>	SeqNo: <b>2382363</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9881	0	94.2	78.5	119	4.80	20	
Toluene	0.99	0.049	0.9881	0	99.9	75.7	123	2.95	20	
Ethylbenzene	1.0	0.049	0.9881	0	102	74.3	126	2.42	20	
Xylenes, Total	3.0	0.099	2.964	0	101	72.9	130	2.46	20	
Surr: 4-Bromofluorobenzene	0.98		0.9881		98.9	80	120	0	0	

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: **Safety Env Solutions**      Work Order Number: **2005394**      RcptNo: **1**

Received By: **Isaiah Ortiz**      5/9/2020 7:15:00 AM      *IO*  
 Completed By: **Isaiah Ortiz**      5/9/2020 7:53:19 AM      *IO*  
 Reviewed By: *of 5/9/2020*

**Chain of Custody**

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

**Log In**

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

*IO*  
 # of preserved bottles checked for pH: *5/9/20*  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Not Present			

### Chain-of-Custody Record

Client: Safety & Environmental Solutions  
 Mailing Address: 203 E. Clinton  
Albuquerque NM 88240  
 Phone #: 505-397-0510  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  Level 4 (Full Validation)  
 Standard  Az Compliance  Other  
 Accreditation:  NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 Day  
 Standard  Rush  
 Project Name: Devon  
Bottom 12-18-1  
W08 20715202  
 Project #: Dev-20-021

Project Manager: Allen Bob  
 Sampler: SSB Jerry  
 On Ice:  Yes  No  
 # of Coolers: 1

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cooler Temp (including CF):
01/07	0910	S	SP-1 Bottom 1F	1	Acu	2005394	4.9-0KFF 4.9 (°C)
	0930	S	SP-2 Bottom 1F				
	0940	S	SP-3 North Way				
	0945	S	SP-4 North Way				
	0955	S	SP-5 West Way				
	1015	S	SP-6 South Way				
	1025	S	SP-7 South Way				
	1100	S	SP-8 Bottom				
	1120	S	SP-9 Bottom				
	1210	S	SP-10 Bottom				
	1300	S	SP-11 Bottom				
	1150	S	SP-12 North Way				

Relinquished by: SSB Jerry  
 Date: 01/08 Time: 1600  
 Relinquished by: Chad  
 Date: 5/8 Time: 1900

Received by: Chad Date: 5/8 Time: 1600  
 Received by: SSB Jerry Date: 5/8 Time: 1900



### HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request	
BTEX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
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)	<input checked="" type="checkbox"/>

Remarks: Bill Devon Direct



**ADDENDUM**

Location name: Cotton Draw Unit 18 Fed Com 1H.

OCD Spill Number: NDHR1914456327

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/](https://gis.ose.state.nm.us/gisapps/ose_pod_locations/)) that POD C-4618-POD1 was installed on June 7, 2022, to a depth of 55 feet below ground surface. Groundwater was not encountered during the placement of the test boring. Well C-4618-POD1 is 0.22 miles east of the Cotton Draw Unit 18 Fed Com 1H.

The spills were remediated to criteria for DTW of 51-100 feet bgs.

A boring log of the well C-4618-POD1 is attached.



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4618			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	LATITUDE	DEGREES 32	MINUTES 7	SECONDS 25.94	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND
		LONGITUDE	103	43	0.69	W		* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SW Sec.18 T25S R32S NMPM								
<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/1/2022	DRILLING ENDED 6/1/2022	DEPTH OF COMPLETED WELL (FT) Temporary Well		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 6/7/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

OSE DIV JUN 10 2022 10:3:22

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 01/28/2022)			
FILE NO.	C-4618	POD NO.	1	TRN NO.	725951		
LOCATION	25S.32E.18 343			WELL TAG ID NO.	—	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Sand, Fine-grained, poorly graded, 2.5 YR 5/6, Red	Y ✓ N	
	6	24	18	Sand, Fine-grained, poorly graded, unconsolidated, with Caliche 7.5 YR 7/6, Red	Y ✓ N	
	24	55	31	Sand, Fine-grained, poorly graded, unconsolidated, 7.5 YR 7.5/6, Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):                      0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. 23 Cotton Draw Unit 507H
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	6/9/2022
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. <u>C-4618</u>	POD NO. <u>1</u>	TRN NO. <u>725951</u>	
LOCATION <u>25S. 32E. 18 343</u>	WELL TAG ID NO. <u>-</u>	PAGE 2 OF 2	

Incident ID	NDHR1914456327
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional  
 Signature: \_\_\_\_\_ Date: 11/1/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: OCD Date: 11/1/2022

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

Closure Approved by: Ashley Maxwell Date: 2/03/2023  
 Printed Name: Ashley Maxwell Title: Environmental Specialist

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

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

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

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

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

CONDITIONS

Action 155303

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 155303
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

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