Received by OCD: 11/17/2022 9:32:42 AM Form C-141 State of New Mexico

Page 6

Oil Conservation Division

Incident ID	NAB1530234949
District RP	
Facility ID	
Application ID	

### Closure

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

<b><u>Closure Report Attachment Checklist</u>:</b> Each of the following i	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	_ Date: <u>11/17/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by: Jocelyn Harimon	Date:11/17/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Hall	Date: 1/6/2023
Printed Name: Brittany Hall	Title: Environmental Specialist

## Devon Energy Production Company Cotton Draw Unit 181 SWD

Closure Report UL H, Section 36, T24S, R31E Eddy County, New Mexico

> NAB1530234949 NAB1626756642 NOY1701331626 NAB1726355760 NRM2003439614 NRM2008733329

### December 19, 2021



**Prepared for:** 

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

By:

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

### **Company Contacts**

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

### Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the CDU 181 SWD concerning multiple historic releases of produced water in and outside of containment. This site is situated in Eddy County, Section 36, Township 24S, and Range 31E.

Releases at this location date back to February of 2015 and span to March of 2020. A total of 6 releases are contained in this report, and as they collectively were released on the site, they are addressed in total in this closure document separately.

SESI personnel performed an assessment of the site in July of 2020 based on generator knowledge of the leak locations. SESI personnel mapped the leak areas 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 315' bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

#### Characterization for NAB1530234949, NAB1626756642, NAB1726355760, NRM2003439614, NRM2008733329

Each of these incident numbers had some amount of release that was outside of containment. Many of them had the potential to impact soil, therefore, due to the historic nature of some of the releases, they were bundled together and approached as one much larger leak area for feasibility. In July of 2020, SESI personnel performed sampling to determine vertical extent of the releases. SESI advanced multiple auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Laboratories for analysis. The results of the testing are captured in the summary below:

	Devon Energy CDU 181 SWD								
	Soi	l Sample	Results: H		nmental Lab	oratories 7	/23/20		
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes	
AH-1 H NORTH	200	ND	ND	85	ND	ND	ND	ND	
AH-2 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-3 H WEST	340	ND	2600	2500	ND	ND	ND	ND	
AH-4 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-5 SURFACE	68	ND	ND	ND	ND	ND	ND	ND	
AH-6 H SOUTH	67	ND	ND	ND	ND	ND	ND	ND	
AH-7 SURFACE	310	ND	ND	ND	ND	ND	ND	ND	
AH-8 H SOUTH	ND	ND	ND	ND	ND	ND	ND	ND	
AH-9 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-10 H SE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-11 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-12 SURFACE	230	ND	ND	ND	ND	ND	ND	ND	
AH-13 SURFACE	120	ND	ND	ND	ND	ND	ND	ND	
AH-14 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-15 SURFACE	67	ND	ND	ND	ND	ND	ND	ND	
AH-16 SURFACE	200	ND	ND	ND	ND	ND	ND	ND	
AH-17 SURFACE	200	ND	ND	ND	ND	ND	ND	ND	
AH-18 H EAST	ND	ND	ND	ND	ND	ND	ND	ND	
AH-19 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-22 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-21 SURFACE	81	ND	ND	ND	ND	ND	ND	ND	
AH-24 SURFACE	430	ND	ND	ND	ND	ND	ND	ND	
AH-24 @ 1'	79	ND	ND	ND	ND	ND	ND	ND	
AH-23 H EAST	180	ND	ND	ND	ND	ND	ND	ND	
AH-25 H NE	220	ND	ND	ND	ND	ND	ND	ND	
AH-26 SURFACE	220	ND	ND	ND	ND	ND	ND	ND	
AH-27 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-28 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-29 H NORTH	ND	ND	ND	ND	ND	ND	ND	ND	
AH-30 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-31 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
AH-32 SURFACE	290	ND	ND	ND	ND	ND	ND	ND	
AH-33 SURFACE	ND	ND	ND	ND	ND	ND	ND	ND	
	1	1	1	1	1	1	1		

Further investigation was needed at the AH-1 H North sample point and the AH-3 H West sample point. Auger was advanced to 1' and resampled, the results are presented below.

Devon Energy										
CDU 181 SWD										
Soil Sample Results: Hall Environmental Laboratories 9/15/20										
SAMPLE ID	Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	<b>Total Xylenes</b>		
AH-1 H NORTH	ND	ND	ND	ND	ND	ND	ND	ND		
AH-3 @ 1'	130	ND	ND	ND	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 1ft as practicable. The areas with appreciable DRO and MRO contamination were marked for excavation. In January of 2021, approximately 60 yrds of contaminated material was removed via shovel or backhoe. Confirmation and horizontal samples were taken to ensure remediation was successful and that the horizontal extent of the release area had been established. The samples were properly preserved and packaged then sent to Hall Laboratories for analysis. The results of the sampling is captured in the table below.

Devon Energy CDU 181 SWD									
Soil Sample Results: Hall Environmental Laboratories 1/25/21									
Chloride	GRO	DRO	MRO	Benzene	Toluene	Ethyl benzene	Total Xylenes		
120	ND	ND	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
ND	ND	14	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
ND	ND	ND	ND	ND	ND	ND	ND		
	Chloride 120 ND	ChlorideGRO120NDNDNDNDNDNDNDNDNDNDNDNDNDNDNDNDND	ChlorideGRODRO120NDNDNDNDNDNDNDNDNDNDNDNDND14NDNDNDNDNDNDNDNDND	ChlorideGRODROMRO120ND14NDNDNDNDNDNDNDNDNDNDNDNDND	ChlorideGRODROMROBenzene120ND	ChlorideGRODROMROBenzeneToluene120ND14NDNDNDNDNDNDNDNDNDNDNDNDNDNDND	ChlorideGRODROMROBenzeneTolueneEthyl benzene120ND		

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.

#### NOY1701331626

This release was completely contained inside of the SPCC. An initial 45 bbls of produced water was released, and a vacuum truck recovered all 45 bbls from the lined containment area. A visual liner inspection was subsequently performed with no deficiencies. No further remedial actions were needed, and this report shall serve as a closure request for this incident number as well.

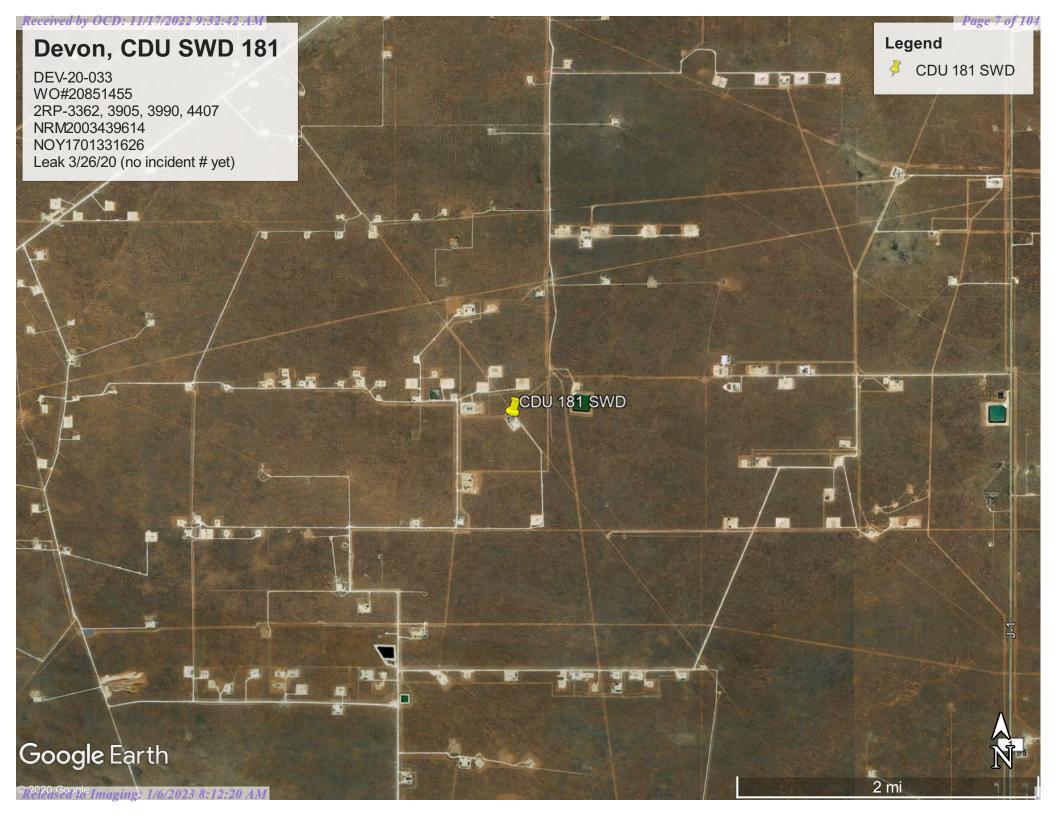
#### **Closure Request**

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 the following releases.

NAB1530234949 NAB1626756642 NOY1701331626 NAB1726355760 NRM2003439614 NRM2008733329 Supplemental information has been included in this report to support our closure request.

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

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





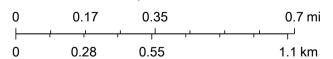
# OSE PUBLIC PRINT





SiteBoundaries



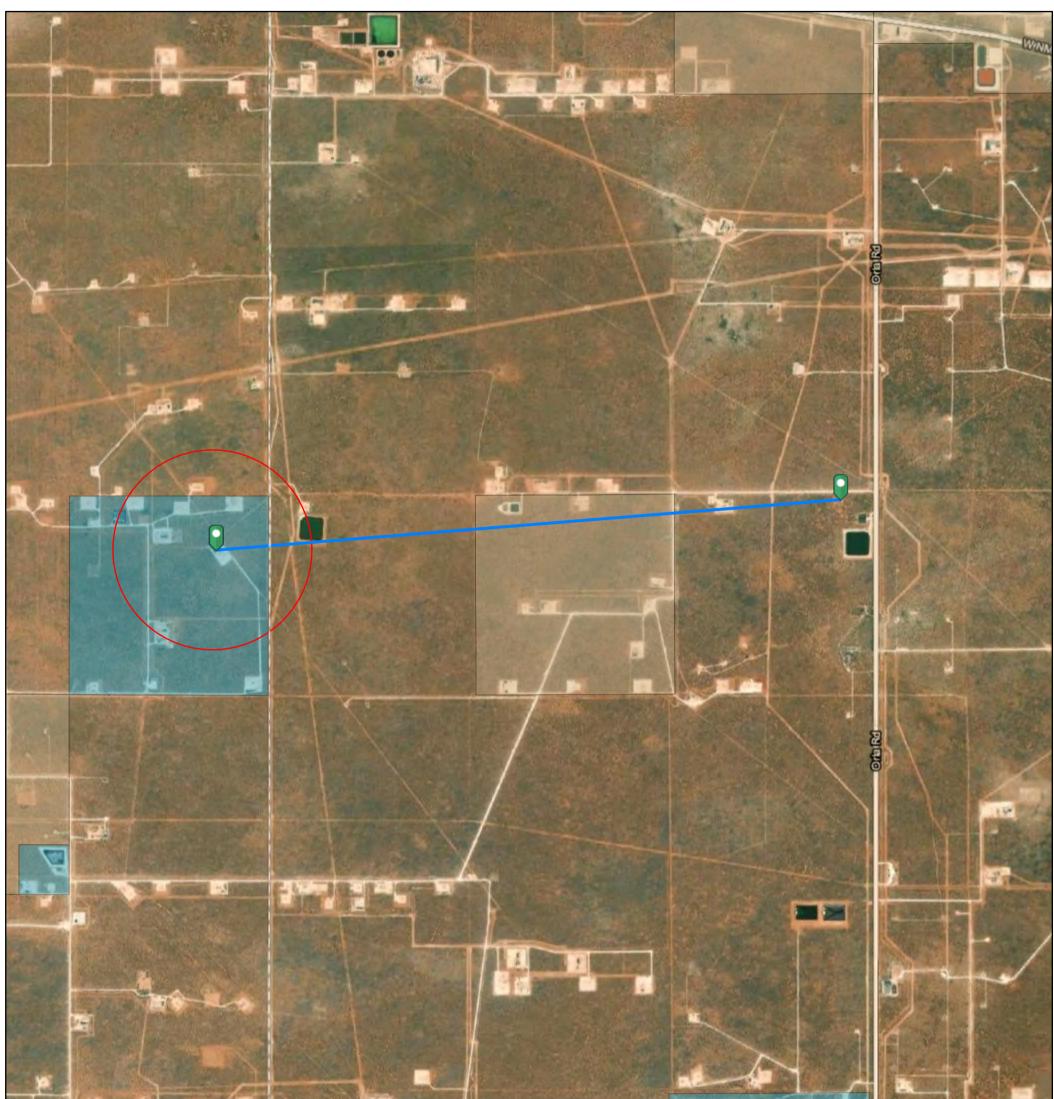


Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

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

Released to Imaging: 1/6/2023 8:12:20 AM

# OSE PUBLIC PRINT



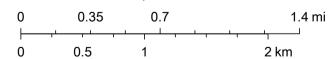
8/27/2021. 10:05:01 AM

1:36,112



SiteBoundaries





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

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

OSE DII JUL 9 2021 M1:52



## WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

6SE 017 JUN 21 2021 RM10114

PAGE 1 OF 2

20E3

WELL TAG ID NO.

VTION	OSE POD NO	POT	· •		WELL TAG ID NO. 20E37			OSE FILE NO( C-4536 PHONE (OPTIO	$\checkmark$		
OC.	BASIN PR	OPERTIE	S RANCHES LLC					·			
WELL I	WELL OWN 3300 N A		ADDRESS BLDG 1, STE 220					CITY MIDLAND		state TX	zi₽ 79705
1. GENERAL AND WELL LOCATION	VELL LOCATION (FROM GPS) LONGITUDE			iN			REQUIRED: ONE TENTH OF A SECOND QUIRED: WGS 84 WNSHJIP, RANGE) WHERE AVAILABLE				
	LICENSE NO	).	NAME OF LICENSED	DRILLER					NAME OF WELL DR	ILLING COMPANY	
	WD1	706			Bryce Wallace				Elite	Drillers Corporation	
	DRILLING S 06/09		DRILLING ENDED 06/10/21	DEPTH OF CO	MPLETED WELL (FT) 500	BORE H		E DEPTH (FT) 500	DEPTH WATER FIR	ST ENCOUNTERED (FT 314	7)
Z,	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 314				
OIL	DRILLING F	LUID:	AIR	MUD	ADDITIVES	- SPECIFY:			L		
RMA	DRILLING M	ETHOD:	ROTARY	HAMMER	CABLE TOO	L 门 OTH	ÆF	R - SPECIFY:	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
CASING INFORMATION	DEPTH (feet bgl) FROM TO DIAM (inches)		(include o	MATERIAL AND/O GRADE each casing string, an sections of screen)	d CO	NN T	SING ECTION YPE	CASING CASING W INSIDE DIAM. THICKNE (inches) (inches)		SLOT SIZE (inches)	
¢ CA	0	20	12 3/4	note	STEEL	(		ng diameter) N/A	8.28	.337	+
G&	0	300	7 7/8	+	SDR17 PVC		SP	LINE	4.3	SDR17	
2. DRILLING	300	500	7 7/8		SDR17 PVC		SP	LINE	4.3	SDR17	.032
					· · · · · · · · · · · · · · · · · · ·			·			
AL	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM. (inches)	i	ST ANNULAR SEAI VEL PACK SIZE-RA				AMOUNT (cubic feet)	METHO PLACE	
ERI	0	20	12 3/4		CEME	NT			10	TOP	FILL
TAI	0	20	7 7/8	<b> </b>	CEME	NT		· · ·	6	TOP	FILL
3. ANNULAR MATERIAL	300	500	7 7/8		8/16 SILICA SAND				46		FILL
FOR	OSE INTER		1. 2021			·····		WR-20		& LOG (Version 06/	30/17)

24.32.33.122

1

LOCATION

,

DSE DII JUN 21 2021 AM10:14

	DEPTH ( FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WAT	ND TYPE OF MA ER-BEARING C.	WA BEAF (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (====)			
	0	3	3		RED	SAND			Y	√ N	ZONES (gpm)
	3	12	9			ICHE			 Y	✓ N	
	12	180	168				√ N				
	180	235	415			CLAY NDSTONE			Y	✓ N	
	235	480	245	TAI	N SANDSTONE		RINGERS		✓ Y	N	4.00
	480	500	20		ED CLAY WITH				Y	√ N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
OFV									Y	N	
90					· · · · · · · · · · · · · · · · · · ·				Y	N	
IC L									Y	N	
00					··· · ·· ··· ·· ·				Y	N	··
EOI									Y	N	
ROG									Y	N	
QX					··········				Y	N	
4.1									Y	N	
			······						Y	N	
							······································		Y	N	
									Y	N	
									Y	N	• • •
					· · · · · · · · · · · · · · · · · · ·				Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:			TOT	AL ESTIN	<b>AATED</b>	
	PUM	P 🗸 A	IR LIFT	BAILER O	THER - SPECIF	ť:		WEL	L YIELD	) (gpm):	4.00
ON	WELL TES			ACH A COPY OF DA ME, AND A TABLE S							
RVISION	MISCELLA	NEOUS INF	ORMATION:							<u>, , , , , , , , , , , , , , , , ,</u>	
TEST; RIG SUPEI											
5. TES	PRINT NAM	1Ē(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONSITE	SUPERVIS	SION OF WELL CON	STRU	CTION O	THER TH	IAN LICENSEE:
	THEINDE	RSIGNED	EREBY CERTIE	IES THAT, TO THE E	SEST OF LIS OF	HER KNOT			E EUBE	SOING 19	A TRUE AND
6. SIGNATURE	CORRECT I	RECORD OI	F THE ABOVE D	ESCRIBED HOLE AN 0 DAYS AFTER COM	ND THAT HE OR	SHE WILL	FILE THIS WELL F				
SIGN	PL	r n/	l	J	Bryce Wallace				06/1	5/2021	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
FOF	OSE INTERI	NAL USE		<u></u>	<u> </u>	<u></u>	WR-20 WF	LLREG	CORD &	LOG	sion 06/30/2017)
	ENOC-C	1536	10-1-01	1	POD NO.	(	TRN NO.	e95	37		CLEM COLO VINCITI
LO	CATION <	ŤΚ-	24.32	2.33.122	········		WELL TAG ID NO.	2	DE	37	PAGE 2 OF 2



Southeast corner facing North inside



Location sign facing West Released to Imaging: 1/6/2023 8:12:20 AM



Southeast corner facing West inside



Southeast corner facing North inside



East side facing West inside



Southeast corner facing West outside Released to Imaging: 1/6/2023 8:12:20 AM



East side facing West inside



East side facing West inside



East side facing West inside



East side facing West inside Released to Imaging: 1/6/2023 8:12:20 AM



Northeast corner facing South inside



East side facing west inside





Northeast corner facing West inside



Northeast corner facing South outside



North side facing South inside



Northeast corner facing West inside



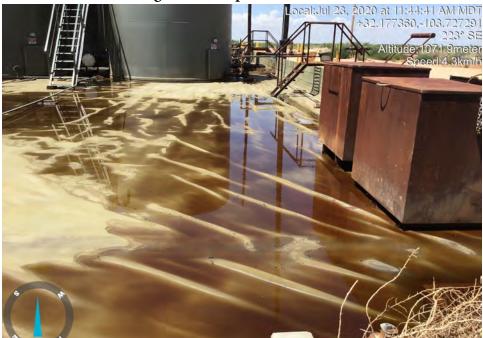
North side facing South inside



North side facing South inside

Local Jul 25, 2020 at 11:45:25 AM MDT 19° SE Attitude: 1071.7meter Speed:2.3km/h

Northeast corner facing East , Sump with water



North side facing South inside

**Released to Imaging: 1/6/2023 8:12:20 AM** 



Northeast corner facing South outside



Northwest corner facing South inside

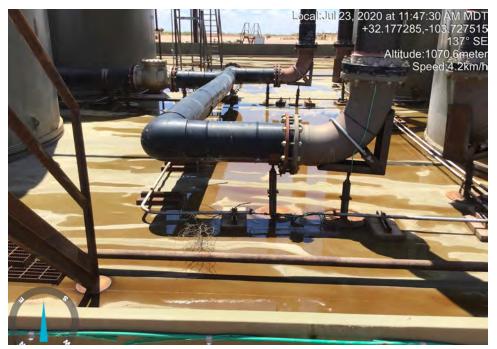


West side facing East inside



West side facing East inside

Released to Imaging: 1/6/2023 8:12:20 AM



West side facing East inside



West side facing East inside



Southwest corner facing North inside



West side facing East inside



Southwest corner facing East inside



Southwest corner facing North outside Released to Imaging: 1/6/2023 8:12:20 AM



Southeast corner sump facing East (water)



Southwest corner facing east outside



West side inside (pump#1), patch unglued



East side, inside pump#3, liner patch unglued Released to Imaging: 1/6/2023 8:12:20 AM



Inside center facing Southwest



Inside center facing Northeast



East side, outside of liner (oil dump)



East side, outside of liner, oil stain (not liner leak), oil dump Released to Imaging: 1/6/2023 8:12:20 AM



Inside facing Southwest (chemical and water mix)



East side, outside of liner (oil dump)

### Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation









### Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation









**Released to Imaging: 1/6/2023 8:12:20 AM** 

### Devon Energy – Cotton Draw Unit 181 SWD Excavation & Remediation









**Released to Imaging: 1/6/2023 8:12:20 AM** 



February 01, 2021

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

RE: Coftton Draw 181 SWD

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

OrderNo.: 2101967

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/27/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Date Reported: 2/1/2021 Client Sample ID: SP-1 1ft Bottom

Project:	Coftton Draw 181 SWD		0	Collection Dat	<b>e:</b> 1/2	25/2021 10:15:00 AM		
Lab ID:	2101967-001	Matrix: SOIL         Received Date: 1/27/2021 7:35:00 AM						
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analys	t: VP	
Chloride		120	60	mg/Kg	20	1/29/2021 7:12:25 PM	57808	
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: mb	
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	1/28/2021 10:46:12 AN	1 57769	
Motor O	il Range Organics (MRO)	ND	46	mg/Kg	1	1/28/2021 10:46:12 AN	1 57769	
Surr:	DNOP	127	30.4-154	%Rec	1	1/28/2021 10:46:12 AN	1 57769	
EPA ME	THOD 8015D: GASOLINE RAN	GE				Analys	t: RAA	
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	1/29/2021 1:15:18 PM	57765	
Surr:	BFB	96.2	75.3-105	%Rec	1	1/29/2021 1:15:18 PM	57765	
EPA ME	THOD 8021B: VOLATILES					Analys	t: RAA	
Benzene	e	ND	0.024	mg/Kg	1	1/29/2021 1:15:18 PM	57765	
Toluene		ND	0.047	mg/Kg	1	1/29/2021 1:15:18 PM	57765	
Ethylber	nzene	ND	0.047	mg/Kg	1	1/29/2021 1:15:18 PM	57765	
Xylenes	, Total	ND	0.094	mg/Kg	1	1/29/2021 1:15:18 PM	57765	
Surr:	4-Bromofluorobenzene	99.2	80-120	%Rec	1	1/29/2021 1:15:18 PM	57765	

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

**Qualifiers:** 

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

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

Page 1 of 12

**CLIENT:** Safety & Environmental Solutions

Project: Coftton Draw 181 SWD

**Analytical Report** Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/1/2021 Client Sample ID: SP-2 1ft Bottom Collection Date: 1/25/2021 10:30:00 AM

Lab ID: 2101967-002	Matrix: SOIL		<b>Received Date:</b> 1/27/2021 7:35:00 AM						
Analyses	Result	RL	<b>RL</b> Qual Units		Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: VP			
Chloride	ND	60	mg/Kg	20	1/29/2021 8:14:27 PM	57808			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: mb			
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/28/2021 11:57:29 AM	57769			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/28/2021 11:57:29 AM	57769			
Surr: DNOP	142	30.4-154	%Rec	1	1/28/2021 11:57:29 AM	57769			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/29/2021 2:26:12 PM	57765			
Surr: BFB	97.4	75.3-105	%Rec	1	1/29/2021 2:26:12 PM	57765			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.024	mg/Kg	1	1/29/2021 2:26:12 PM	57765			
Toluene	ND	0.048	mg/Kg	1	1/29/2021 2:26:12 PM	57765			
Ethylbenzene	ND	0.048	mg/Kg	1	1/29/2021 2:26:12 PM	57765			
Xylenes, Total	ND	0.096	mg/Kg	1	1/29/2021 2:26:12 PM	57765			
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 2:26:12 PM	57765			

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

**Qualifiers:** 

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

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

Page 2 of 12

Analytical Report Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Coftton Draw 181 SWD

Date Reported: 2/1/2021
Client Sample ID: SP-3 1ft Bottom

Collection Date: 1/25/2021 11:20:00 AM

Lab ID: 2101967-003	Matrix: SOIL	<b>Received Date:</b> 1/27/2021 7:35:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: <b>VP</b>	
Chloride	ND	59	mg/Kg	20	1/29/2021 8:51:39 PM	57808	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: mb	
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/28/2021 12:21:18 PM	1 57769	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/28/2021 12:21:18 PM	1 57769	
Surr: DNOP	144	30.4-154	%Rec	1	1/28/2021 12:21:18 PM	1 57769	
EPA METHOD 8015D: GASOLINE RANG	θE				Analys	t: RAA	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/29/2021 3:37:29 PM	57765	
Surr: BFB	97.3	75.3-105	%Rec	1	1/29/2021 3:37:29 PM	57765	
EPA METHOD 8021B: VOLATILES					Analys	t: RAA	
Benzene	ND	0.023	mg/Kg	1	1/29/2021 3:37:29 PM	57765	
Toluene	ND	0.047	mg/Kg	1	1/29/2021 3:37:29 PM	57765	
Ethylbenzene	ND	0.047	mg/Kg	1	1/29/2021 3:37:29 PM	57765	
Xylenes, Total	ND	0.094	mg/Kg	1	1/29/2021 3:37:29 PM	57765	
Surr: 4-Bromofluorobenzene	99.5	80-120	%Rec	1	1/29/2021 3:37:29 PM	57765	

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

Qualifiers:

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

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

Page 3 of 12

Project:

Lab ID:

**CLIENT:** Safety & Environmental Solutions Coftton Draw 181 SWD

2101967-004

**Analytical Report** Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/1/2021

Result	RL Qual Units DF Date Analyzed	]
Matrix: SOIL	<b>Received Date:</b> 1/27/2021 7:35:00 AM	
	Collection Date: 1/25/2021 1:40:00 PM	
S	Client Sample ID: SP-4 1ft Bottom	

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	ND	59	mg/Kg	20	1/29/2021 9:04:04 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/28/2021 12:45:06 PM	57769
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/28/2021 12:45:06 PM	57769
Surr: DNOP	145	30.4-154	%Rec	1	1/28/2021 12:45:06 PM	57769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Surr: BFB	100	75.3-105	%Rec	1	1/29/2021 4:01:18 PM	57765
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.025	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Toluene	ND	0.050	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Ethylbenzene	ND	0.050	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Xylenes, Total	ND	0.10	mg/Kg	1	1/29/2021 4:01:18 PM	57765
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 4:01:18 PM	57765

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

**Qualifiers:** 

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

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

Page 4 of 12

.

Project:

Lab ID:

Analytical Report Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2101967-005

Coftton Draw 181 SWD

Date Reported: 2/1/2021 Client Sample ID: SP-5 North Wall Collection Date: 1/25/2021 1:15:00 PM Received Date: 1/27/2021 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: VP			
Chloride	ND	60	mg/Kg	20	1/29/2021 9:16:29 PM	57808			
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst	: mb			
Diesel Range Organics (DRO)	14	8.5	mg/Kg	1	1/28/2021 5:23:32 PM	57769			
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/28/2021 5:23:32 PM	57769			
Surr: DNOP	151	30.4-154	%Rec	1	1/28/2021 5:23:32 PM	57769			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/29/2021 4:25:09 PM	57765			
Surr: BFB	99.6	75.3-105	%Rec	1	1/29/2021 4:25:09 PM	57765			
EPA METHOD 8021B: VOLATILES					Analyst	RAA			
Benzene	ND	0.023	mg/Kg	1	1/29/2021 4:25:09 PM	57765			
Toluene	ND	0.046	mg/Kg	1	1/29/2021 4:25:09 PM	57765			
Ethylbenzene	ND	0.046	mg/Kg	1	1/29/2021 4:25:09 PM	57765			
Xylenes, Total	ND	0.092	mg/Kg	1	1/29/2021 4:25:09 PM	57765			
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 4:25:09 PM	57765			

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 12

Analytical Report Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Coftton Draw 181 SWD

Date Reported: 2/1/2021 Client Sample ID: SP-6 West Wall Collection Date: 1/25/2021 2:05:00 PM

Lab ID: 2101967-006	Matrix: SOIL		Recei	27/2021 7:35:00 AM			
Analyses	Result	RL	<b>RL</b> Qual Units		DF	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	1/29/2021 9:28:54 PM	57808
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/28/2021 1:32:50 PM	57769
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/28/2021 1:32:50 PM	57769
Surr: DNOP	159	30.4-154	S	%Rec	1	1/28/2021 1:32:50 PM	57769
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Surr: BFB	97.8	75.3-105		%Rec	1	1/29/2021 4:49:03 PM	57765
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Toluene	ND	0.047		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Ethylbenzene	ND	0.047		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Xylenes, Total	ND	0.094		mg/Kg	1	1/29/2021 4:49:03 PM	57765
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	1/29/2021 4:49:03 PM	57765

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

Qualifiers:

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

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

Page 6 of 12

**Analytical Report** Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Coftton Draw 181 SWD

Date Reported: 2/1/2021 Client Sample ID: SP-7 East Wall Collection Date: 1/25/2021 11:00:00 AM

Lab ID: 2101967-007	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 1/2		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: VP
Chloride	ND	60	mg/Kg	20	1/29/2021 9:41:19 PM	57808
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/28/2021 1:56:48 PM	57769
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/28/2021 1:56:48 PM	57769
Surr: DNOP	140	30.4-154	%Rec	1	1/28/2021 1:56:48 PM	57769
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Surr: BFB	99.9	75.3-105	%Rec	1	1/29/2021 5:12:56 PM	57765
EPA METHOD 8021B: VOLATILES					Analys	: RAA
Benzene	ND	0.024	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Toluene	ND	0.048	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Ethylbenzene	ND	0.048	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Xylenes, Total	ND	0.096	mg/Kg	1	1/29/2021 5:12:56 PM	57765
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	1/29/2021 5:12:56 PM	57765

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

**Qualifiers:** 

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

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

Page 7 of 12

.

Project:

Analytical Report Lab Order 2101967

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Coftton Draw 181 SWD

Date Reported: 2/1/2021
Client Sample ID: SP-8 North Wall
Collection Date: 1/25/2021 11:55:00 AM

Lab ID: 2101967-008	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 1/2	27/2021 7:35:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	1/29/2021 9:53:43 PM	57808
EPA METHOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst	: mb
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/28/2021 2:20:45 PM	57769
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/28/2021 2:20:45 PM	57769
Surr: DNOP	147	30.4-154	%Rec	1	1/28/2021 2:20:45 PM	57769
EPA METHOD 8015D: GASOLINE	RANGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Surr: BFB	99.7	75.3-105	%Rec	1	1/29/2021 7:35:47 PM	57765
EPA METHOD 8021B: VOLATILE	S				Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Toluene	ND	0.047	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Ethylbenzene	ND	0.047	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Xylenes, Total	ND	0.094	mg/Kg	1	1/29/2021 7:35:47 PM	57765
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	1/29/2021 7:35:47 PM	57765

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

Qualifiers:

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

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

Page 8 of 12

Client: Project:	-	y & Environme on Draw 181 S		olutions							
Sample ID: MB-57808     SampType: MBLK     TestCode: EPA Method 300.0: Anions											
Client ID: F	BS	Batch	ID: 57	808	R	RunNo: 74	1942				
Prep Date:	1/29/2021	Analysis Da	ate: 1/	29/2021	S	SeqNo: 26	645957	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: L	CS-57808	SampTy	vpe: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: L	CSS	Batch	ID: 57	808	R	RunNo: 74	1942				
Prep Date:	1/29/2021	Analysis Da	ate: 1/	29/2021	S	SeqNo: 26	645958	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	98.7	90	110			

#### Qualifiers:

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

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

Page 9 of 12

2101967

01-Feb-21

WO#:

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

	Safety & Environn Coftton Draw 181		olutions							
Sample ID: MB-5770	<b>59</b> Samp	Туре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Bato	ch ID: 57	769	F	unNo: 74	4917				
Prep Date: 1/27/20	21 Analysis	Date: 1/	28/2021	5	eqNo: 2	644531	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) ND	10								
Motor Oil Range Organics	(MRO) ND	50								
Surr: DNOP	13		10.00		132	30.4	154			
Sample ID: LCS-577	Sample ID: LCS-57769       SampType: LCS       TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Bato	h ID: 57	769	F	unNo: 74	4917				
Prep Date: 1/27/20	21 Analysis	Date: 1/	28/2021	S	eqNo: 20	644533	Units: mg/K	۲g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 67	10	50.00	0	133	68.9	141			
Surr: DNOP	6.5		5.000		130	30.4	154			
Sample ID: 2101967	-001AMS Samp	Туре: <b>М</b>	3	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SP-1 1ft	Bottom Bate	h ID: 57	769	F	unNo: 74	4917				
Prep Date: 1/27/20	21 Analysis	Date: 1/	28/2021	S	eqNo: 20	644534	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 58	9.1	45.54	0	127	15	184			
Surr: DNOP	5.8		4.554		128	30.4	154			
Sample ID: 2101967	-001AMSD Samp	Туре: <b>МS</b>	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SP-1 1ft	Bottom Bate	ch ID: 57	769	F	lunNo: 74	4917				
Prep Date: 1/27/20	21 Analysis	Date: 1/	28/2021	S	eqNo: 2	644535	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 60	9.0	44.76	0	135	15	184	4.58	23.9	

#### Qualifiers:

Surr: DNOP

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

B Analyte detected in the associated Method Blank

136

30.4

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

4.476

6.1

0

154

0

2101967

01-Feb-21

WO#:

	ety & Environmental So ftton Draw 181 SWD	lutions								
Sample ID: Ics-57765	SampType: LC	s	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 577	765	RunNo: 74945							
Prep Date: 1/27/2021	Analysis Date: 1/2	29/2021	S	eqNo: 26	645737	Units: mg/Kg	9			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GR	.0) 24 5.0	25.00	0	97.9	80	120				
Surr: BFB	1100	1000		107	75.3	105			S	
Sample ID: mb-57765	SampType: ME	LK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	9		
Client ID: PBS	Batch ID: 57	765	R	unNo: 74	1945					
Prep Date: 1/27/2021	Analysis Date: 1/2	29/2021	S	SeqNo: 26	645738	Units: mg/Kg	9			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GR										
Surr: BFB	960	1000		95.8	75.3	105				
Sample ID: 2101967-00	2ams SampType: MS	ns SampType: MS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: SP-2 1ft Bo	ttom Batch ID: 577	765	R	lunNo: 74	1945					
Prep Date: 1/27/2021	Analysis Date: 1/2	29/2021	S	eqNo: 26	646037	Units: mg/Kg	J			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GR		24.32	0	105	61.3	114				
Surr: BFB	1100	972.8		111	75.3	105			S	
Sample ID: 2101967-00	2amsd SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	9		
Client ID: SP-2 1ft Bo	ttom Batch ID: 577	765	R	unNo: 74	1945					
Prep Date: 1/27/2021	Analysis Date: 1/2	29/2021	S	eqNo: 26	646038	Units: mg/Kg	J			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GR		24.08	0	101	61.3	114	4.39	20		
Surr: BFB	1000	963.4		109	75.3	105	0	0	S	
Sample ID: Ics-57723	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	9		
Client ID: LCSS	Batch ID: 577	723	R	lunNo: 74	1945					
Prep Date: 1/25/2021	Analysis Date: 1/	30/2021	S	eqNo: 26	646074	Units: %Rec				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1100	1000		107	75.3	105			S	
Sample ID: mb-57723	SampType: ME	IK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	) )		
Client ID: PBS	Batch ID: 57	723	R	lunNo: 74	1945					
Prep Date: 1/25/2021	Analysis Date: 1/	30/2021	S	eqNo: 26	646078	Units: %Rec				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	950	1000		94.6	75.3	105				

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 11 of 12

Page 37 of 104

2101967 01-Feb-21

WO#:

Client:	Safety & I	Environm	ental So	lutions							
Project:	Coftton D	0raw 181 S	SWD								
Sample ID:	LCS-57765	SampT	Гуре: <b>LC</b>	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batc	h ID: 57	765	RunNo: <b>74945</b>						
Prep Date:	1/27/2021	Analysis E	Date: 1/	29/2021	S	SeqNo: 26	645742	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.025	1.000	0	96.9	80	120			
Toluene		0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene		0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		101	80	120			
Sample ID:	mb-57765	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batc	h ID: 577	765	R	RunNo: <b>7</b> 4	1945				
Prep Date:	1/27/2021	Analysis E	Date: 1/	29/2021	S	SeqNo: 26	645743	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
•											
Surr: 4-Brom	nofluorobenzene	0.99		1.000		99.2	80	120			
-	2101967-001ams		Гуре: МS		Tes			120 8021B: Volat	iles		
Sample ID:		SampT		5			PA Method		iles		
Sample ID:	2101967-001ams	SampT	Гуре: <b>МS</b> h ID: <b>57</b> 7	5 765	R	tCode: EF	PA Method 1945				
Sample ID: Client ID:	2101967-001ams SP-1 1ft Bottom	Samp1 Batcl	Гуре: <b>МS</b> h ID: <b>57</b> 7	5 765 29/2021	R	tCode: EF RunNo: 74	PA Method 1945	8021B: Volat		RPDLimit	Qual
Sample ID: Client ID: Prep Date:	2101967-001ams SP-1 1ft Bottom	Samp1 Batcl Analysis [	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> /	5 765 29/2021	R	tCode: EF RunNo: 74 SeqNo: 26	PA Method 1945 646088	8021B: Volat	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte	2101967-001ams SP-1 1ft Bottom	Samp1 Batch Analysis D Result	Гуре: <b>МS</b> h ID: <b>57</b> Date: <b>1/</b> PQL	5 765 29/2021 SPK value	R S SPK Ref Val	tCode: EF RunNo: 74 GeqNo: 26 %REC	PA Method 1945 646088 LowLimit	8021B: Volat Units: mg/K HighLimit	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene	2101967-001ams SP-1 1ft Bottom	SampT Batcl Analysis D Result 0.93	Type: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / PQL 0.024	5 765 29/2021 SPK value 0.9597	R S SPK Ref Val 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4	PA Method 1945 646088 LowLimit 76.3	8021B: Volat Units: mg/K HighLimit 120	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	2101967-001ams SP-1 1ft Bottom	SampT Batcl Analysis E Result 0.93 0.95	Type: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / PQL 0.024 0.048	5 765 29/2021 SPK value 0.9597 0.9597	R S SPK Ref Val 0 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7	PA Method 1945 646088 LowLimit 76.3 78.5	8021B: Volat Units: mg/K HighLimit 120 120	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2101967-001ams SP-1 1ft Bottom	SampT Batc Analysis E Result 0.93 0.95 0.96	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> PQL 0.024 0.048 0.048	5 765 29/2021 SPK value 0.9597 0.9597 0.9597	R S SPK Ref Val 0 0 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8	PA Method 1945 646088 LowLimit 76.3 78.5 78.1	8021B: Volat Units: mg/K HighLimit 120 120 124	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	2101967-001ams SP-1 1ft Bottom 1/27/2021	Samp1 Batc Analysis E Result 0.93 0.95 0.96 2.9 0.98	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> PQL 0.024 0.048 0.048	5 765 29/2021 SPK value 0.9597 0.9597 0.9597 2.879 0.9597	R SPK Ref Val 0 0 0 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102	PA Method 1945 646088 LowLimit 76.3 78.5 78.1 79.3 80	8021B: Volat Units: mg/K HighLimit 120 120 124 125	g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	2101967-001ams SP-1 1ft Bottom 1/27/2021	SampT Batcl Analysis E Result 0.93 0.95 0.96 2.9 0.98	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / Date: <b>1</b> / 0.024 0.048 0.048 0.048 0.096	765 29/2021 SPK value 0.9597 0.9597 0.9597 2.879 0.9597	R SPK Ref Val 0 0 0 0 0 Tes	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102	24 Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 24 Method	8021B: Volat Units: mg/K HighLimit 120 120 124 125 120	g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	SampT Batcl Analysis E Result 0.93 0.95 0.96 2.9 0.98	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / 0.024 0.048 0.048 0.048 0.096 Fype: <b>MS</b> h ID: <b>57</b>	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 5D 765	R SPK Ref Val 0 0 0 0 Tes: R	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF	PA Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 PA Method 1945	8021B: Volat Units: mg/K HighLimit 120 120 124 125 120	Sg %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID:	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	SampT Batc Analysis E Result 0.93 0.95 0.96 2.9 0.98 SampT Batc	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / 0.024 0.048 0.048 0.048 0.096 Fype: <b>MS</b> h ID: <b>57</b>	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 5D 765 29/2021	R SPK Ref Val 0 0 0 0 Tes: R	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF RunNo: 74	PA Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 PA Method 1945	8021B: Volat Units: mg/K HighLimit 120 120 124 125 120 8021B: Volat	Sg %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date:	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	SampT Batc Analysis I Result 0.93 0.95 0.96 2.9 0.98 SampT Batc Analysis I	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> /2 0.024 0.048 0.048 0.048 0.096 Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> /2	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 5D 765 29/2021	R SPK Ref Val 0 0 0 0 Tes R S	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF RunNo: 74 SeqNo: 26	PA Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 PA Method 1945 546089	8021B: Volat Units: mg/K HighLimit 120 120 124 125 120 8021B: Volat Units: mg/K	3g %RPD tiles		
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	SampT Batcl Analysis I Result 0.93 0.95 0.96 2.9 0.98 SampT Batcl Analysis I Result	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / 0.024 0.024 0.048 0.048 0.048 0.096 Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> /	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 2.879 0.9597 5D 765 29/2021 SPK value	R SPK Ref Val 0 0 0 0 Tes R SPK Ref Val	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF RunNo: 74 SeqNo: 26 %REC	24 Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 24 Method 1945 546089 LowLimit	8021B: Volat Units: mg/K HighLimit 120 124 125 120 8021B: Volat Units: mg/K HighLimit	Sg %RPD iiles Sg %RPD	RPDLimit	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID: Client ID: Prep Date: Analyte Benzene	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	SampT Batc Analysis E Result 0.93 0.95 0.96 2.9 0.98 SampT Batc Analysis E Result 0.91	Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / 0.024 0.048 0.048 0.048 0.096 Fype: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / PQL 0.024	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 2.879 0.9597 5D 765 29/2021 SPK value 0.9756	R SPK Ref Val 0 0 0 0 Tes: SPK Ref Val 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF RunNo: 74 SeqNo: 26 %REC 93.0	PA Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 PA Method 1945 546089 LowLimit 76.3	8021B: Volat Units: mg/K HighLimit 120 124 125 120 8021B: Volat Units: mg/K HighLimit 120	59 %RPD tiles 59 %RPD 1.99	RPDLimit 20	
Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2101967-001ams SP-1 1ft Bottom 1/27/2021 nofluorobenzene 2101967-001amsd SP-1 1ft Bottom	Samp Batc Analysis I Result 0.93 0.95 0.96 2.9 0.98 Samp Batc Analysis I Result 0.91 0.93	Type: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / PQL 0.024 0.048 0.048 0.048 0.096 Type: <b>MS</b> h ID: <b>57</b> Date: <b>1</b> / PQL 0.024 0.024 0.049	5 765 29/2021 SPK value 0.9597 0.9597 2.879 0.9597 2.879 0.9597 5D 765 29/2021 SPK value 0.9756 0.9756	R SPK Ref Val 0 0 0 0 Test SPK Ref Val 0 0	tCode: EF RunNo: 74 SeqNo: 26 %REC 96.4 98.7 99.8 99.4 102 tCode: EF RunNo: 74 SeqNo: 26 %REC 93.0 95.0	PA Method 1945 546088 LowLimit 76.3 78.5 78.1 79.3 80 PA Method 1945 546089 LowLimit 76.3 78.5	8021B: Volat Units: mg/K HighLimit 120 120 124 125 120 8021B: Volat Units: mg/K HighLimit 120 120	2g %RPD :illes 2g %RPD 1.99 2.20	RPDLimit 20 20	

#### Qualifiers:

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

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

2101967

01-Feb-21

WO#:

Page	39 0	f 104

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environm TEL: 505-345- Website: clier	490 Albuquerq 3975 FAX:	1 Hawkins ue. NM 87 505-345-4	NE 109 Sar 107	Pa Sample Log-In Check List			
Client Name: Safety & Environmental S	Work Order Nur	nber: 210	967		RcptNo: 1			
Received By: Isaiah Ortiz	1/27/2021 7:35:00	AM		I-C	2-16			
Completed By: Isaiah Ortiz	1/27/2021 8:41:10	AM		InC	22			
Reviewed By: JR 1/27/21								
Chain of Custody								
1. Is Chain of Custody complete?		Yes		No 🗌	Not Present			
2. How was the sample delivered?		Cou	ier					
Log In								
3. Was an attempt made to cool the samples?		Yes		No 🗌				
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	~	No 🗌				
5. Sample(s) in proper container(s)?		Yes		No 🗌				
6. Sufficient sample volume for indicated test(s	?	Yes	~	No 🗌				
7. Are samples (except VOA and ONG) properl	y preserved?	Yes	V	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 broke	n?	Yes		No 🗹	# of preserved bottles checked			
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	for pH: (<2 or >12 unless note			
12. Are matrices correctly identified on Chain of	Custody?	Yes	~	No 🗌	Adjusted?			
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 🗌	Checked by: SGL (27)			
Special Handling (if applicable)								
15. Was client notified of all discrepancies with t	his order?	Yes		No 🗌	NA 🗹			
Person Notified:	Date	e:						
By Whom:	Via:	🗌 eMa	il 🗌 Ph	one 🗌 Fax	In Person			
Regarding:					0			
Client Instructions:								
16. Additional remarks:								
	eal Intact Seal No Present	Seal D	ate	Signed By				

Page 1 of 1

Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent) 0//77/261		Date     Time     Remarks:       Date     1     7.002       Date     Time       Date     Time
Anal Anal www.ha 4901 Hawkins NE Tel. 505-345-3975	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals		Remarks:
Rush Joy Word 181 Surs 20-033	Lo lo c)	799709700	
Turn-Around Time: Project Name: Deven Cothin Arew 181 Project #: Project #:	Project Manager: Rampler: M. M. B. Sampler: M. B. On Ice: 2 Yes M. Coolers: 1 Cooler Temp(Including cF): 3.4. Cooler Temp(Incl		Received by: Via: Received by: Via: I C CONNY
Chain-of-Custody Record Client: Sulty + EN MonNould Se but heres Mailing Address: 703 & Clouton Kto bbs N. M. 88220 Phone #: 575-397-0510	email or Fax#: QA/QC Package: Zandard	- 1 FF TSHAM	Date: Time: Relinquished by: Received by: Via: 26 1630 PSA AMA Received by: Via: Date: Time: Relinquished by: Via: 1900 Increased enhanted to Hall Environmental may be exhoremented to other encoding laboration



September 25, 2020

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

RE: Devon Cotton Draw 181 SWD

OrderNo.: 2009B07

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/18/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

Analyses

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**Diesel Range Organics (DRO)** 

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

**EPA METHOD 8015D: GASOLINE RANGE** 

**Analytical Report** Lab Order 2009B07

Date Reported: 9/25/2020

9/22/2020 6:20:39 PM

9/22/2020 6:20:39 PM

9/22/2020 6:20:39 PM

9/23/2020 4:01:24 AM

Analyst: BRM

Analyst: NSB

Analyst: NSB

55318

55318

55318

55300

55300

55300

55300

55300

55300

55300

#### Hall Environmental Analysis Laboratory, Inc.

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

**CLIENT:** Safety & Environmental Solutions Client Sample ID: AH-3 1ft Devon Cotton Draw 181 SWD Collection Date: 9/15/2020 9:55:00 AM 2009B07-001 Matrix: SOIL Received Date: 9/18/2020 8:00:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA 130 60 mg/Kg 20 9/25/2020 2:34:41 AM 55435

9.5

47

4.8

0.024

0.048

0.048

0.096

80-120

30.4-154

75.3-105

ND

ND

144

ND

89.4

ND

ND

ND

ND

103

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

1

Refer to the QC Summary report and	sample login checklist for flagge	d OC data and	preservation information.

**Qualifiers:** 

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

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

Page 1 of 6

Lab ID:

**Analytical Report** Lab Order 2009B07

Date Reported: 9/25/2020

#### Hall Environmental Analysis Laboratory, Inc.

Devon Cotton Draw 181 SWD

2009B07-002

**CLIENT:** Safety & Environmental Solutions Client Sample ID: H- North Collection Date: 9/15/2020 11:30:00 AM Matrix: SOIL Received Date: 9/18/2020 8:00:00 AM Recult DT Qual Units DF Date Analyzed Datah

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	9/25/2020 2:47:06 AM	55435
EPA METHOD 8015M/D: DIESEL RANGE ORG/	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/22/2020 6:30:42 PM	55318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/22/2020 6:30:42 PM	55318
Surr: DNOP	126	30.4-154	%Rec	1	9/22/2020 6:30:42 PM	55318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Surr: BFB	87.4	75.3-105	%Rec	1	9/23/2020 4:24:48 AM	55300
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Toluene	ND	0.048	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Ethylbenzene	ND	0.048	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Xylenes, Total	ND	0.097	mg/Kg	1	9/23/2020 4:24:48 AM	55300
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	9/23/2020 4:24:48 AM	55300

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

**Qualifiers:** 

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

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

Page 2 of 6

14

1.5

15.00

	ety & Environmental Solutions ron Cotton Draw 181 SWD			
Sample ID: MB-55435	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 55435	RunNo: 72148		
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529091	Units: <b>mg/Kg</b>	
Analyte Chloride	Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID: LCS-55435	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 55435	RunNo: 72148		
Prep Date: 9/24/2020	Analysis Date: 9/24/2020	SeqNo: 2529092	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual

0

92.4

90

110

Qualifiers:

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

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

Page 3 of 6

2009B07

25-Sep-20

WO#:

	z Environmental Solutions Cotton Draw 181 SWD									
Sample ID: LCS-55318	SampType: LCS TestCoo	e: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55318 RunN	lo: <b>72063</b>								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020 SeqN	lo: 2524682 Units: mg/Kg								
Analyte	Result PQL SPK value SPK Ref Val %	REC LowLimit HighLimit %RPD RPDLimit Qual								
Diesel Range Organics (DRO) Surr: DNOP	60         10         50.00         0           3.7         5.000         7	119         70         130           74.6         30.4         154								
Sample ID: LCS-55322	SampType: LCS TestCoo	le: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55322 RunN	lo: <b>72063</b>								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020 SeqN	lo: 2524684 Units: %Rec								
Analyte	Result PQL SPK value SPK Ref Val %	REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: DNOP	4.0 5.000	30.5 30.4 154								
Sample ID: LCS-55325	325 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 55325 RunN	RunNo: 72063								
Prep Date: 9/21/2020	Analysis Date: 9/23/2020 SeqN	lo: 2524685 Units: %Rec								
Analyte	Result PQL SPK value SPK Ref Val %	REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: DNOP	4.6 5.000	92.7 30.4 154								
Sample ID: MB-55318	SampType: MBLK TestCoo	le: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55318 RunN	lo: <b>72063</b>								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020 SeqN	lo: 2524687 Units: mg/Kg								
Analyte	Result PQL SPK value SPK Ref Val %	REC LowLimit HighLimit %RPD RPDLimit Qual								
Diesel Range Organics (DRO)	ND 10									
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 7.2 10.00	72.3 30.4 154								
Sample ID: MB-55322	SampType: MBLK TestCoo	le: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55322 RunN	lo: <b>72063</b>								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020 SeqN	lo: 2524688 Units: %Rec								
Analyte	Result PQL SPK value SPK Ref Val %	REC LowLimit HighLimit %RPD RPDLimit Qual								
Surr: DNOP	8.6 10.00	36.2 30.4 154								
Sample ID: MB-55325	SampType: MBLK TestCoo	le: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS		lo: <b>72063</b>								
Prep Date: 9/21/2020	Analysis Date: 9/22/2020 SeqN	lo: 2524689 Units: %Rec								

Analyte

Surr: DNOP

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

B Analyte detected in the associated Method Blank

%REC

90.9

LowLimit

30.4

HighLimit

154

%RPD

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

SPK value SPK Ref Val

10.00

Qual

RPDLimit

2009B07

25-Sep-20

WO#:

Result

9.1

PQL

•	z Environme Cotton Draw									
Sample ID: mb-55300 SampType: MBLK				Test	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 55300			R	unNo: 72	2044				
Prep Date: 9/21/2020	Analysis Da	ate: <b>9/</b>	23/2020	SeqNo: 2523843			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		84.9	75.3	105			
Sample ID: Ics-55300	SampT	ype: LC	S	Test	tCode: EF	PA Method	d 8015D: Gasoline Range			
Client ID: LCSS	Batch	ID: 55	300	R	unNo: 72	2044				
Prep Date: 9/21/2020	Analysis Da	ate: <b>9/</b>	22/2020	S	eqNo: 2	523844	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.4	72.5	106			
Surr: BFB	960		1000		96.0	75.3	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 5 of 6

2009B07

25-Sep-20

WO#:

•	Environm									
Sample ID: mb-55300	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 55	300	R	RunNo: 7	2044				
Prep Date: 9/21/2020	Analysis [	Date: <b>9/</b>	23/2020	S	SeqNo: 2	523891	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID: LCS-55300	Samp	Type: LC	s	Tes	estCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batc	h ID: 55	300	R	RunNo: 72	2044				
Prep Date: 9/21/2020	Analysis [	Date: <b>9/</b>	22/2020	S	SeqNo: 2	523892	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.2	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			

#### Qualifiers:

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

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

2009B07

25-Sep-20

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY			TE	ll Environme L: 505-345-, 'ebsite: clien	490 Albuquerq 3975 FAX:	1 Hawk ue, NM 505-34.	tins NE 87109 5-4107	Sample Log-In Check List				
Client Name:	Safety & El Solutions	nvironmental	Work	Order Nurr	nber: 200	9B07			RcptNo: 1			
Received By:	Cheyenne	Cason	9/18/20	20 8:00:00	AM							
Completed By:	Juan Roja	IS	9/18/20	20 10:19:0	4 AM		Guan	39	21			
Reviewed By:	em	9/18/2	10									
Chain of Cust	ody											
1. Is Chain of Cu	stody comp	lete?			Yes		No		Not Present			
2. How was the s	sample deliv	ered?			Cou	ier						
Log In 3. Was an attemp	pt made to c	cool the samp	les?		Yes		No					
4. Were all sampl	les received	at a tempera	ture of >0° C	to 6.0°C	Yes	•	No					
5. Sample(s) in p	roper contai	iner(s)?			Yes	~	No					
<ol><li>Sufficient samp</li></ol>	ole volume f	or indicated te	est(s)?		Yes	~	No					
7. Are samples (e	xcept VOA	and ONG) pro	perly preserve	ed?	Yes	~	No					
8. Was preservati	ive added to	bottles?			Yes		No	V	NA 🗌			
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		No		NA 🗹			
0. Were any sam	ple containe	ers received b	roken?		Yes		No	~	# of preserved			
1. Does paperwor (Note discrepar			)		Yes	~	No		for pH:			
2. Are matrices co					Yes	~	No		Adjusted?			
3. Is it clear what	analyses we	ere requested	?		Yes	~	No		/ allela			
4. Were all holding (If no, notify cus					Yes	✓	No		Checked by: Cru 918/0			
pecial Handlin	ng (if app	licable)										
15. Was client noti	ified of all di	screpancies v	vith this order?	,	Yes		No		NA 🗹			
Person N By Whon Regardin Client Ins	n:			Date Via:	☐ eMa	ail 🗌	Phone 🗌	Fax	In Person			
16. Additional rem	arks:				-							
17. <u>Cooler Inform</u> Cooler No	Temp ℃	Condition	Seal Intact	Seal No	Seal Da	ate	Signed I	Зу	6." [			
1	5.0	Good						1				

Page 1 of 1

Received by OCD: 11/17/2022	D:32:42 AM	Page 49 of 10
AL		
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request		+
M 87 M 87	X Mange	
e, NI al.cc 345- uest	Total Coliform (Present/Absent)	
<b>/IRONN</b> <b>5 LABOI</b> mental.com erque, NM 87 505-345-4107 Request	(AOV-im92) 0728	
<b>ENVIRONME</b> <b>YSIS LABOR/</b> environmental.com Albuquerque, NM 87109 Fax 505-345-4107 alysis Request	(AOV) 0828	
<b>IALL ENVIRON</b> <b>NALYSIS LABC</b> www.hallenvironmental.com ins NE - Albuquerque, NM ( 5-3975 Fax 505-345-41 Analysis Request	Cl' E' BL' NO <sup>3</sup> ' NO <sup>5</sup> ' EO <sup>4</sup> ' 2O <sup>4</sup>	
MLL M.ha M.ha NE 3975	RCRA 8 Metals	
HAAN ww kins \$345-3	SMI20728 by 8310 or 82705IMS	4
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1)	Biel to Deven
1901 Tel.	8081 Pesticides/8082 PCB's	
		Kemarks
027 5 WID	HEAL NO. 70091807 -001 -002	Date Time A/17/201300 Date Time (8/20 0300
me: 5 Deuta	Project Manager:	via: via: Cecar 9
Turn-Around T Er Standard Project Name: Project #:	Project Manager:	Received by: Via:
Chain-of-Custody Record : Salch + Gruhmward Salutions g Adress: 703 5. Olution 6/hs 2. un 88240 e#. 575-397-0510	□ Level 4 (Full Validation) □ Az Compliance □ Other □ Other ○ AH-3 (FF S H-NNTT+	Time:     Relinquished by:     Received by:     Via:     Date     Time       DB:     Search     Received by:     Via:     Date     Time       DB:     Search     Remarks:       DB:     Search     Search       DB:     Search     Search       DB:     Search     Search       Time:     Relinquished by:     Via:       Time:     Relinquished by:     Via:       Curr     Cuar     9/13/20
-JO - TO - I		Retifiquished by: Relinquished by:
Client: Client: Client: Color Mailing Address: Phone #:	email or Fax#: QA/QC Package: D-Standard Accreditation: D NELAC D EDD (Type) D ate Time	Time:
Client:	email or Fa       QA/QC Pac       QA/QC Pac       Date       Tin	Date:



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

August 05, 2020

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

RE: Devon Cotton Draw 181 SWD

OrderNo.: 2007E37

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 33 sample(s) on 7/29/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab ID:

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-001

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020

Client Sample ID: AH-1 H-North Collection Date: 7/23/2020 11:55:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	200	60	mg/Kg	20	8/3/2020 4:26:15 PM	54133
EPA METHOD 8015D MOD: GASOLINE RANG	iΕ				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Surr: BFB	100	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/3/2020 4:53:43 PM	54043
Motor Oil Range Organics (MRO)	85	47	mg/Kg	1	8/3/2020 4:53:43 PM	54043
Surr: DNOP	117	30.4-154	%Rec	1	8/3/2020 4:53:43 PM	54043
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Toluene	ND	0.048	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Ethylbenzene	ND	0.048	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Xylenes, Total	ND	0.095	mg/Kg	1	7/31/2020 4:33:24 AM	54042
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: Dibromofluoromethane	111	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042
Surr: Toluene-d8	97.4	70-130	%Rec	1	7/31/2020 4:33:24 AM	54042

Matrix: SOIL

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

Qualifiers:

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

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

Page 1 of 43

Analytical Report Lab Order 2007E37

7/31/2020 8:41:20 PM 54044

54044

54044

54044

54044

7/31/2020 8:41:20 PM

7/31/2020 8:41:20 PM

7/31/2020 8:41:20 PM

7/31/2020 8:41:20 PM

### Date Reported: 8/5/2020

CLIENT: Safety & Environmental Solutio	ns	Clien	t Sample II	D: Al	H-2 Surface	
<b>Project:</b> Devon Cotton Draw 181 SWD		Col	lection Dat	e:7/2	23/2020 12:40:00 PM	
Lab ID: 2007E37-002	Matrix: SOIL	Re	eceived Dat	e: 7/2	29/2020 9:30:00 AM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 3:26:27 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 9:55:39 AM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 9:55:39 AM	54047
Surr: DNOP	103	30.4-154	%Rec	1	7/31/2020 9:55:39 AM	54047
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2020 8:41:20 PM	54044
Surr: BFB	96.3	75.3-105	%Rec	1	7/31/2020 8:41:20 PM	54044
EPA METHOD 8021B: VOLATILES					Analyst	: RAA

ND

ND

ND

ND

102

0.024

0.047

0.047

0.094

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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

Page 2 of 43

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-3 H-West Collection Date: 7/23/2020 1:25:00 PM

Lab ID: 2007E37-003	Matrix: SOIL		Recei	ved Dat	<b>e:</b> 7/2	29/2020 9:30:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	340	60		mg/Kg	20	8/3/2020 4:28:29 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	CLP
Diesel Range Organics (DRO)	2600	47		mg/Kg	5	7/31/2020 10:25:54 AM	54047
Motor Oil Range Organics (MRO)	2500	230		mg/Kg	5	7/31/2020 10:25:54 AM	54047
Surr: DNOP	309	30.4-154	S	%Rec	5	7/31/2020 10:25:54 AM	54047
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Surr: BFB	94.1	75.3-105		%Rec	1	7/31/2020 9:51:32 PM	54044
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Toluene	ND	0.048		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Ethylbenzene	ND	0.048		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Xylenes, Total	ND	0.096		mg/Kg	1	7/31/2020 9:51:32 PM	54044
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	7/31/2020 9:51:32 PM	54044

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

Qualifiers:

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

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

Page 3 of 43

Lab ID:

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-004

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-4 Surface Collection Date: 7/23/2020 2:15:00 PM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 5:05:44 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 10:35:59 AM	1 54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 10:35:59 AN	54047
Surr: DNOP	121	30.4-154	%Rec	1	7/31/2020 10:35:59 AM	1 54047
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/31/2020 11:01:43 PM	1 54044
Surr: BFB	96.7	75.3-105	%Rec	1	7/31/2020 11:01:43 PM	1 54044
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.023	mg/Kg	1	7/31/2020 11:01:43 PM	1 54044
Toluene	ND	0.046	mg/Kg	1	7/31/2020 11:01:43 PM	1 54044
Ethylbenzene	ND	0.046	mg/Kg	1	7/31/2020 11:01:43 PM	1 54044
Xylenes, Total	ND	0.092	mg/Kg	1	7/31/2020 11:01:43 PM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/31/2020 11:01:43 PM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 4 of 43

Lab ID:

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-005

Devon Cotton Draw 181 SWD

Client Sample ID: AH-5 Surface Collection Date: 7/24/2020 9:15:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Un	its D	F	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	68	60	mg	/Kg 2	20	8/3/2020 5:18:09 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.2	mg	/Kg 1	1	7/31/2020 10:46:03 AM	54047
Motor Oil Range Organics (MRO)	ND	46	mg	/Kg 1	1	7/31/2020 10:46:03 AM	54047
Surr: DNOP	141	30.4-154	%F	ec 1	1	7/31/2020 10:46:03 AM	54047
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg	/Kg 1	1	7/31/2020 11:25:05 PM	54044
Surr: BFB	94.8	75.3-105	%F	ec 1	1	7/31/2020 11:25:05 PM	54044
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024	mg	/Kg 1	1	7/31/2020 11:25:05 PM	54044
Toluene	ND	0.048	mg	/Kg 1	1	7/31/2020 11:25:05 PM	54044
Ethylbenzene	ND	0.048	mg	/Kg 1	1	7/31/2020 11:25:05 PM	54044
Xylenes, Total	ND	0.096	mg	/Kg 1	1	7/31/2020 11:25:05 PM	54044
Surr: 4-Bromofluorobenzene	101	80-120	%F	ec 1	1	7/31/2020 11:25:05 PM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 5 of 43

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-6 H-South Collection Date: 7/24/2020 9:35:00 AM Received Date: 7/29/2020 9:30:00 AM

Lab ID:	2007E37-006	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 7/2	29/2020 9:30:00 AM	
Analyses	5	Result	RL	Qual Units	DF	<b>Date Analyzed</b>	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: CJS
Chloride	9	67	60	mg/Kg	20	8/3/2020 5:30:34 PM	54130
EPA ME	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst	: CLP
Diesel R	Range Organics (DRO)	ND	9.2	mg/Kg	1	7/31/2020 10:56:02 AM	54047
Motor O	il Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 10:56:02 AN	54047
Surr:	DNOP	109	30.4-154	%Rec	1	7/31/2020 10:56:02 AM	54047
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Surr:	BFB	95.9	75.3-105	%Rec	1	7/31/2020 11:48:31 PM	54044
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA
Benzene	e	ND	0.024	mg/Kg	1	7/31/2020 11:48:31 PN	54044
Toluene		ND	0.048	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Ethylber	nzene	ND	0.048	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Xylenes	, Total	ND	0.096	mg/Kg	1	7/31/2020 11:48:31 PM	54044
Surr:	4-Bromofluorobenzene	103	80-120	%Rec	1	7/31/2020 11:48:31 PM	54044

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

Qualifiers:

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

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

RL Reporting Limit

Page 6 of 43

Lab ID:

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-007

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-7 Surface Collection Date: 7/24/2020 9:55:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: CJS
Chloride	310	60	mg/Kg	20	8/3/2020 5:42:58 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst	t: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 11:06:03 AN	1 54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 11:06:03 AN	1 54047
Surr: DNOP	112	30.4-154	%Rec	1	7/31/2020 11:06:03 AN	1 54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	t: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Surr: BFB	97.6	75.3-105	%Rec	1	8/1/2020 12:11:58 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	t: RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Toluene	ND	0.047	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Xylenes, Total	ND	0.095	mg/Kg	1	8/1/2020 12:11:58 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	8/1/2020 12:11:58 AM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 7 of 43

Lab ID:

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-008

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-8 H-South Collection Date: 7/24/2020 10:10:00 AM

**Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 5:55:23 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 11:16:06 AM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 11:16:06 AM	54047
Surr: DNOP	127	30.4-154	%Rec	1	7/31/2020 11:16:06 AM	54047
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Surr: BFB	97.6	75.3-105	%Rec	1	8/1/2020 12:35:15 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Toluene	ND	0.047	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Xylenes, Total	ND	0.093	mg/Kg	1	8/1/2020 12:35:15 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 12:35:15 AM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 8 of 43

Lab ID:

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-009

Devon Cotton Draw 181 SWD

Client Sample ID: AH-9 SurfaceCollection Date: 7/24/2020 10:25:00 AMMatrix: SOILReceived Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CJS
Chloride	ND	60		mg/Kg	20	8/3/2020 6:32:38 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/31/2020 11:26:12 AM	54047
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/31/2020 11:26:12 AM	54047
Surr: DNOP	102	30.4-154		%Rec	1	7/31/2020 11:26:12 AM	54047
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/1/2020 12:58:36 AM	54044
Surr: BFB	96.4	75.3-105		%Rec	1	8/1/2020 12:58:36 AM	54044
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.025		mg/Kg	1	8/1/2020 12:58:36 AM	54044
Toluene	ND	0.049		mg/Kg	1	8/1/2020 12:58:36 AM	54044
Ethylbenzene	ND	0.049		mg/Kg	1	8/1/2020 12:58:36 AM	54044
Xylenes, Total	ND	0.099		mg/Kg	1	8/1/2020 12:58:36 AM	54044
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	8/1/2020 12:58:36 AM	54044

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

Qualifiers:

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

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

Page 9 of 43

2007E37-010

**Diesel Range Organics (DRO)** 

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

**EPA METHOD 8015D: GASOLINE RANGE** 

**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** 

**Project:** 

Lab ID:

Analyses

Chloride

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**Analytical Report** Lab Order 2007E37

Date Reported: 8/5/2020

8/3/2020 6:45:02 PM

8/1/2020 1:21:54 AM

7/31/2020 11:36:17 AM 54047

7/31/2020 11:36:17 AM 54047

7/31/2020 11:36:17 AM 54047

54130

54044

54044

54044

54044

54044

54044

54044

Analyst: CLP

Analyst: RAA

Analyst: RAA

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions Client Sample ID: AH-10 H-Southeast Devon Cotton Draw 181 SWD Collection Date: 7/24/2020 10:40:00 AM Matrix: SOIL Received Date: 7/29/2020 9:30:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: CJS

60

10

50

4.7

0.023

0.047

0.047

0.093

80-120

30.4-154

75.3-105

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

20

1

1

1

1

1

1

1

1

1

1

ND

ND

ND

95.0

ND

98.8

ND

ND

ND

ND

105

Refer to the OC Summary re	port and sample logir	n checklist for flagged QC data and	preservation information.

**Qualifiers:** 

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

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

Page 10 of 43

\*

Lab ID:

**CLIENT:** Safety & Environmental Solutions

2007E37-011

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: AH-11 Surface Collection Date: 7/24/2020 11:00:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	ND	60		mg/Kg	20	8/3/2020 6:57:26 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/31/2020 11:46:16 AM	54047
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/31/2020 11:46:16 AM	54047
Surr: DNOP	96.2	30.4-154		%Rec	1	7/31/2020 11:46:16 AM	54047
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/1/2020 1:45:21 AM	54044
Surr: BFB	94.3	75.3-105		%Rec	1	8/1/2020 1:45:21 AM	54044
EPA METHOD 8021B: VOLATILES						Analyst	: RAA
Benzene	ND	0.023		mg/Kg	1	8/1/2020 1:45:21 AM	54044
Toluene	ND	0.046		mg/Kg	1	8/1/2020 1:45:21 AM	54044
Ethylbenzene	ND	0.046		mg/Kg	1	8/1/2020 1:45:21 AM	54044
Xylenes, Total	ND	0.092		mg/Kg	1	8/1/2020 1:45:21 AM	54044
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	8/1/2020 1:45:21 AM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 11 of 43

Analytical Report Lab Order 2007E37

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-12 Surface Collection Date: 7/24/2020 11:20:00 AM Received Date: 7/29/2020 9:30:00 AM

Lab ID: 2007E37-012	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 7/2	29/2020 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	230	60	mg/Kg	20	8/3/2020 7:09:50 PM	54130
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 11:56:17 AM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 11:56:17 AM	54047
Surr: DNOP	106	30.4-154	%Rec	1	7/31/2020 11:56:17 AM	54047
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Surr: BFB	97.0	75.3-105	%Rec	1	8/1/2020 2:55:50 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Toluene	ND	0.049	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Ethylbenzene	ND	0.049	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Xylenes, Total	ND	0.098	mg/Kg	1	8/1/2020 2:55:50 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 2:55:50 AM	54044

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

Qualifiers:

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

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

Page 12 of 43

Lab ID:

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-013

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-13 Surface Collection Date: 7/24/2020 11:40:00 AM Received Date: 7/29/2020 9:30:00 AM

	Soll							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: CJS		
Chloride	120	60	mg/Kg	20	8/3/2020 7:22:14 PM	54130		
EPA METHOD 8015M/D: DIESEL RANGE C	DRGANICS				Analyst	: CLP		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 12:06:15 PM	54047		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 12:06:15 PM	54047		
Surr: DNOP	106	30.4-154	%Rec	1	7/31/2020 12:06:15 PM	54047		
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 3:19:12 AM	54044		
Surr: BFB	98.0	75.3-105	%Rec	1	8/1/2020 3:19:12 AM	54044		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	8/1/2020 3:19:12 AM	54044		
Toluene	ND	0.048	mg/Kg	1	8/1/2020 3:19:12 AM	54044		
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 3:19:12 AM	54044		
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 3:19:12 AM	54044		
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 3:19:12 AM	54044		

Matrix: SOIL

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

Qualifiers:

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

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

Page 13 of 43

Lab ID:

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

**Analytical Report** Lab Order 2007E37

8/1/2020 3:42:34 AM

54044

54044

54044

54044

54044

54044

54044

Analyst: RAA

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-14 Surface Collection Date: 7/24/2020 12:00:00 PM

ab ID: 2007E37-014	Matrix: SOIL		Received Date	e: 7/2	29/2020 9:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: CJS
Chloride	ND	60	mg/Kg	20	8/3/2020 7:34:39 PM	54130
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	st: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/31/2020 12:16:16 P	M 54047
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 12:16:16 P	M 54047
Surr: DNOP	107	30.4-154	%Rec	1	7/31/2020 12:16:16 P	M 54047
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: RAA

4.9

75.3-105

0.024

0.049

0.049

0.097

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

99.5

ND

ND

ND

ND

107

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

**Qualifiers:** 

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

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

Page 14 of 43

Lab ID:

**CLIENT:** Safety & Environmental Solutions

2007E37-015

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: AH-15 Surface Collection Date: 7/24/2020 12:20:00 PM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: CJS
Chloride	67	60		mg/Kg	20	8/3/2020 7:47:04 PM	54130
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/31/2020 12:26:17 PM	54047
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/31/2020 12:26:17 PM	54047
Surr: DNOP	109	30.4-154		%Rec	1	7/31/2020 12:26:17 PM	54047
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/1/2020 4:05:56 AM	54044
Surr: BFB	98.1	75.3-105		%Rec	1	8/1/2020 4:05:56 AM	54044
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	8/1/2020 4:05:56 AM	54044
Toluene	ND	0.048		mg/Kg	1	8/1/2020 4:05:56 AM	54044
Ethylbenzene	ND	0.048		mg/Kg	1	8/1/2020 4:05:56 AM	54044
Xylenes, Total	ND	0.096		mg/Kg	1	8/1/2020 4:05:56 AM	54044
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/1/2020 4:05:56 AM	54044

Matrix: SOIL

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

Qualifiers:

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

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

Page 15 of 43

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-16 Surface Collection Date: 7/24/2020 12:50:00 PM

Lab ID: 2007E37-016	Matrix: SOIL         Received Date: 7/29/2020 9:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	200	60	mg/Kg	20	8/3/2020 7:59:29 PM	54130
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 12:36:18 PM	54047
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 12:36:18 PM	54047
Surr: DNOP	102	30.4-154	%Rec	1	7/31/2020 12:36:18 PM	54047
EPA METHOD 8015D: GASOLINE RANG	<b>GE</b>				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Surr: BFB	98.6	75.3-105	%Rec	1	8/1/2020 4:29:30 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Xylenes, Total	ND	0.095	mg/Kg	1	8/1/2020 4:29:30 AM	54044
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	8/1/2020 4:29:30 AM	54044

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

Qualifiers:

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

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

Page 16 of 43

**Analytical Report** Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-17 Surface Collection Date: 7/24/2020 1:10:00 PM

Lab ID:	2007E37-017	Matrix: SOIL	<b>Received Date:</b> 7/29/2020 9:30:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
	THOD 300.0: ANIONS					Analyst	: CJS	
Chloride		200	59	mg/Kg	20	8/3/2020 8:11:53 PM	54130	
EPA MET	THOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	CLP	
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	7/31/2020 12:46:18 PM	54047	
Motor Oi	I Range Organics (MRO)	ND	50	mg/Kg	1	7/31/2020 12:46:18 PM	54047	
Surr: I	DNOP	105	30.4-154	%Rec	1	7/31/2020 12:46:18 PM	54047	
EPA MET	THOD 8015D: GASOLINE R	ANGE				Analyst	RAA	
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 4:53:01 AM	54044	
Surr: I	BFB	95.9	75.3-105	%Rec	1	8/1/2020 4:53:01 AM	54044	
EPA MET	THOD 8021B: VOLATILES					Analyst	RAA	
Benzene	)	ND	0.024	mg/Kg	1	8/1/2020 4:53:01 AM	54044	
Toluene		ND	0.048	mg/Kg	1	8/1/2020 4:53:01 AM	54044	
Ethylben	izene	ND	0.048	mg/Kg	1	8/1/2020 4:53:01 AM	54044	
Xylenes,	Total	ND	0.096	mg/Kg	1	8/1/2020 4:53:01 AM	54044	
Surr: 4	4-Bromofluorobenzene	102	80-120	%Rec	1	8/1/2020 4:53:01 AM	54044	

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

**Qualifiers:** 

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

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

Page 17 of 43

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

**Analytical Report** Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-18 H-East Collection Date: 7/24/2020 1:30:00 PM

Lab ID: 2007E37-018	3 Matr	ix: SOIL	IL <b>Received Date:</b> 7/29/2020 9:30:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: A	NIONS					Analyst	CJS
Chloride		ND	60	mg/Kg	20	8/3/2020 8:24:17 PM	54130
EPA METHOD 8015M/D	: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (I	DRO)	ND	9.7	mg/Kg	1	7/31/2020 12:56:23 PM	54047
Motor Oil Range Organics	s (MRO)	ND	48	mg/Kg	1	7/31/2020 12:56:23 PM	54047
Surr: DNOP		98.8	30.4-154	%Rec	1	7/31/2020 12:56:23 PM	54047
EPA METHOD 8015D: 0	GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics	s (GRO)	ND	4.9	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Surr: BFB		96.4	75.3-105	%Rec	1	8/1/2020 5:16:37 AM	54044
EPA METHOD 8021B: \	VOLATILES					Analyst	RAA
Benzene		ND	0.025	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Toluene		ND	0.049	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Ethylbenzene		ND	0.049	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Xylenes, Total		ND	0.099	mg/Kg	1	8/1/2020 5:16:37 AM	54044
Surr: 4-Bromofluorober	nzene	102	80-120	%Rec	1	8/1/2020 5:16:37 AM	54044

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

**Qualifiers:** 

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

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

RL Reporting Limit Page 18 of 43

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-19 Surface Collection Date: 7/24/2020 1:55:00 PM

Lab ID: 2007E37-019	Matrix: SOIL         Received Date: 7/29/2020 9:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	ND	59	mg/Kg	20	8/3/2020 9:01:30 PM	54130
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/31/2020 1:06:28 PM	54047
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 1:06:28 PM	54047
Surr: DNOP	94.6	30.4-154	%Rec	1	7/31/2020 1:06:28 PM	54047
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Surr: BFB	99.1	75.3-105	%Rec	1	8/1/2020 5:40:18 AM	54044
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Toluene	ND	0.048	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 5:40:18 AM	54044
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	8/1/2020 5:40:18 AM	54044

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

Qualifiers:

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

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

Page 19 of 43

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2007E37

8/1/2020 6:03:47 AM

54044

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-22 Surface Collection Date: 7/24/2020 2:20:00 PM

Lab ID: 2007E37-020	Matrix: SOIL	<b>Received Date:</b> 7/29/2020 9:30:00 AM						
Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: CJS		
Chloride	ND	60	mg/Kg	20	8/3/2020 9:13:55 PM	54130		
EPA METHOD 8015M/D: DIESEL RANG	<b>BE ORGANICS</b>				Analyst	CLP		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 1:16:34 PM	54047		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 1:16:34 PM	54047		
Surr: DNOP	108	30.4-154	%Rec	1	7/31/2020 1:16:34 PM	54047		
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/1/2020 6:03:47 AM	54044		
Surr: BFB	100	75.3-105	%Rec	1	8/1/2020 6:03:47 AM	54044		
EPA METHOD 8021B: VOLATILES					Analyst	: RAA		
Benzene	ND	0.024	mg/Kg	1	8/1/2020 6:03:47 AM	54044		
Toluene	ND	0.048	mg/Kg	1	8/1/2020 6:03:47 AM	54044		
Ethylbenzene	ND	0.048	mg/Kg	1	8/1/2020 6:03:47 AM	54044		
Xylenes, Total	ND	0.097	mg/Kg	1	8/1/2020 6:03:47 AM	54044		

105

80-120

%Rec

1

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- Page 20 of 43

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD

Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-21 Surface Collection Date: 7/27/2020 9:00:00 AM

Lab ID: 2007E37-021	Matrix: SOIL	<b>Received Date:</b> 7/29/2020 9:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: CJS		
Chloride	80	60	mg/Kg	20	8/3/2020 9:26:20 PM	54130		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/4/2020 11:47:47 AM	54047		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/4/2020 11:47:47 AM	54047		
Surr: DNOP	103	30.4-154	%Rec	1	8/4/2020 11:47:47 AM	54047		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/1/2020 6:27:25 AM	54044		
Surr: BFB	96.9	75.3-105	%Rec	1	8/1/2020 6:27:25 AM	54044		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.023	mg/Kg	1	8/1/2020 6:27:25 AM	54044		
Toluene	ND	0.047	mg/Kg	1	8/1/2020 6:27:25 AM	54044		
Ethylbenzene	ND	0.047	mg/Kg	1	8/1/2020 6:27:25 AM	54044		
Xylenes, Total	ND	0.094	mg/Kg	1	8/1/2020 6:27:25 AM	54044		

103

80-120

%Rec

1

8/1/2020 6:27:25 AM

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

Qualifiers:

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

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

Page 21 of 43

54044

Lab ID:

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-022

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020

Client Sample ID: AH-24 Surface Collection Date: 7/27/2020 9:25:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CJS
Chloride	430	60	mg/Kg	20	8/3/2020 5:03:30 PM	54133
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 5:01:50 AM	54045
Surr: BFB	95.8	70-130	%Rec	1	7/31/2020 5:01:50 AM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/31/2020 4:45:05 PM	54051
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 4:45:05 PM	54051
Surr: DNOP	109	30.4-154	%Rec	1	7/31/2020 4:45:05 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 5:01:50 AM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 5:01:50 AM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 5:01:50 AM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 5:01:50 AM	54045
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/31/2020 5:01:50 AM	54045
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	7/31/2020 5:01:50 AM	54045
Surr: Dibromofluoromethane	105	70-130	%Rec	1	7/31/2020 5:01:50 AM	54045
Surr: Toluene-d8	98.5	70-130	%Rec	1	7/31/2020 5:01:50 AM	54045

Matrix: SOIL

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

Qualifiers:

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

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

Page 22 of 43

Lab ID:

**CLIENT:** Safety & Environmental Solutions

2007E37-023

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: AH-24 1ft Collection Date: 7/27/2020 9:50:00 AM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CJS
Chloride	79	60	mg/Kg	20	8/3/2020 5:40:44 PM	54133
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 6:27:34 AM	54045
Surr: BFB	103	70-130	%Rec	1	7/31/2020 6:27:34 AM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/31/2020 4:55:26 PM	54051
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/31/2020 4:55:26 PM	54051
Surr: DNOP	123	30.4-154	%Rec	1	7/31/2020 4:55:26 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	7/31/2020 6:27:34 AM	54045
Toluene	ND	0.049	mg/Kg	1	7/31/2020 6:27:34 AM	54045
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 6:27:34 AM	54045
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 6:27:34 AM	54045
Surr: 1,2-Dichloroethane-d4	98.2	70-130	%Rec	1	7/31/2020 6:27:34 AM	54045
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	7/31/2020 6:27:34 AM	54045
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 6:27:34 AM	54045
Surr: Toluene-d8	98.1	70-130	%Rec	1	7/31/2020 6:27:34 AM	54045

Matrix: SOIL

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

**Qualifiers:** 

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

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

Page 23 of 43

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-23 H-East Collection Date: 7/27/2020 10:15:00 AM

Lab ID: 2007E37-024 Matrix: SOIL Received Date: 7/29/2020 9:30:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 180 60 mg/Kg 20 8/3/2020 8:51:50 PM 54139 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 8/2/2020 2:50:24 AM 54045 Surr: BFB 101 70-130 %Rec 1 8/2/2020 2:50:24 AM 54045 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 7/31/2020 5:05:49 PM 54051 Motor Oil Range Organics (MRO) ND 7/31/2020 5:05:49 PM 54051 48 mg/Kg 1 Surr: DNOP 104 30.4-154 %Rec 7/31/2020 5:05:49 PM 54051 1 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 7/31/2020 1:45:35 PM 54045 Benzene 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/31/2020 1:45:35 PM 54045 Ethylbenzene ND 0.049 mg/Kg 1 7/31/2020 1:45:35 PM 54045 Xylenes, Total ND 0.097 mg/Kg 7/31/2020 1:45:35 PM 54045 1 Surr: 1,2-Dichloroethane-d4 102 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 Surr: 4-Bromofluorobenzene 94.0 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 101 Surr: Dibromofluoromethane 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045 Surr: Toluene-d8 102 70-130 %Rec 1 7/31/2020 1:45:35 PM 54045

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

Qualifiers:

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

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

Page 24 of 43

**Analytical Report** Lab Order 2007E37

Date Reported: 8/5/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Client Sample ID: AH-25 H-Northeast Collection Date: 7/27/2020 10:50:00 AM Received Date: 7/29/2020 9:30:00 AM

Lab ID: 2007E37-025	Matrix: SOIL		<b>Received Date</b>	e: 7/2	29/2020 9:30:00 AM				
Analyses	Result	RL	Qual Units	DF Date Analyzed		Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	220	60	mg/Kg	20	8/3/2020 9:28:53 PM	54139			
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/31/2020 2:14:17 PM	54045			
Surr: BFB	97.2	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045			
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	CLP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 5:16:15 PM	54051			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 5:16:15 PM	54051			
Surr: DNOP	70.5	30.4-154	%Rec	1	7/31/2020 5:16:15 PM	54051			
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF			
Benzene	ND	0.023	mg/Kg	1	7/31/2020 2:14:17 PM	54045			
Toluene	ND	0.047	mg/Kg	1	7/31/2020 2:14:17 PM	54045			
Ethylbenzene	ND	0.047	mg/Kg	1	7/31/2020 2:14:17 PM	54045			
Xylenes, Total	ND	0.093	mg/Kg	1	7/31/2020 2:14:17 PM	54045			
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045			
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045			
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045			
Surr: Toluene-d8	99.8	70-130	%Rec	1	7/31/2020 2:14:17 PM	54045			

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

**Qualifiers:** 

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

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

Reporting Limit

Page 25 of 43

Lab ID:

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-026

Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-26 Surface Collection Date: 7/27/2020 11:15:00 AM

**Received Date:** 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	220	60	mg/Kg	20	8/3/2020 9:41:13 PM	54139
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Surr: BFB	99.1	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 5:26:47 PM	54051
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 5:26:47 PM	54051
Surr: DNOP	84.2	30.4-154	%Rec	1	7/31/2020 5:26:47 PM	54051
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Toluene	ND	0.050	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 2:42:55 PM	54045
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: Dibromofluoromethane	109	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 2:42:55 PM	54045

Matrix: SOIL

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

Qualifiers:

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

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

Page 26 of 43

Lab ID:

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-027

Devon Cotton Draw 181 SWD

Client Sample ID: AH-27 Surface Collection Date: 7/27/2020 11:45:00 AM Received Date: 7/29/2020 9:30:00 AM

Result	RL	<b>RL</b> Qual Units		DF Date Analyzed			
				Analyst	CAS		
ND	60	mg/Kg	20	8/3/2020 10:18:14 PM	54139		
E				Analyst	DJF		
ND	5.0	mg/Kg	1	7/31/2020 3:11:39 PM	54045		
101	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045		
ANICS				Analyst	CLP		
ND	9.9	mg/Kg	1	7/31/2020 5:37:24 PM	54051		
ND	49	mg/Kg	1	7/31/2020 5:37:24 PM	54051		
49.3	30.4-154	%Rec	1	7/31/2020 5:37:24 PM	54051		
r				Analyst	DJF		
ND	0.025	mg/Kg	1	7/31/2020 3:11:39 PM	54045		
ND	0.050	mg/Kg	1	7/31/2020 3:11:39 PM	54045		
ND	0.050	mg/Kg	1	7/31/2020 3:11:39 PM	54045		
ND	0.099	mg/Kg	1	7/31/2020 3:11:39 PM	54045		
105	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045		
97.5	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045		
108	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045		
101	70-130	%Rec	1	7/31/2020 3:11:39 PM	54045		
	ND 101 ANICS ND 49.3 T ND ND ND ND ND ND 105 97.5 108	ND 60 ND 5.0 101 70-130 ANICS ND 9.9 ND 49 49.3 30.4-154 T ND 0.025 ND 0.025 ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.099 105 70-130 97.5 70-130 108 70-130	ND         60         mg/Kg           ND         5.0         mg/Kg           101         70-130         %Rec           ANICS         MD         9.9         mg/Kg           ND         49         mg/Kg           49.3         30.4-154         %Rec           MD         0.025         mg/Kg           ND         0.050         mg/Kg </td <td>ND         60         mg/Kg         20           ND         5.0         mg/Kg         1           101         70-130         %Rec         1           ANICS         ND         9.9         mg/Kg         1           MD         49         mg/Kg         1           49.3         30.4-154         %Rec         1           MD         0.025         mg/Kg         1           MD         0.050         mg/Kg         1           ND         0.099         mg/Kg         1           ND         0.099         mg/Kg         1           105         70-130         %Rec         1           97.5         70-130         %Rec         1           108         70-130         %Rec         1</td> <td>ND         60         mg/Kg         20         8/3/2020 10:18:14 PM           ND         60         mg/Kg         1         7/31/2020 3:11:39 PM           ND         5.0         mg/Kg         1         7/31/2020 3:11:39 PM           101         70-130         %Rec         1         7/31/2020 3:11:39 PM           ANICS         Analyst           ND         9.9         mg/Kg         1         7/31/2020 5:37:24 PM           ND         49         mg/Kg         1         7/31/2020 5:37:24 PM           49.3         30.4-154         %Rec         1         7/31/2020 5:37:24 PM           49.3         30.4-154         %Rec         1         7/31/2020 5:37:24 PM           MD         49         mg/Kg         1         7/31/2020 5:37:24 PM           MD         0.025         mg/Kg         1         7/31/2020 3:11:39 PM           MD         0.025         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.050         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.050         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.099         mg/Kg         1         7/31/2020 3:11:39 PM     &lt;</td>	ND         60         mg/Kg         20           ND         5.0         mg/Kg         1           101         70-130         %Rec         1           ANICS         ND         9.9         mg/Kg         1           MD         49         mg/Kg         1           49.3         30.4-154         %Rec         1           MD         0.025         mg/Kg         1           MD         0.050         mg/Kg         1           ND         0.099         mg/Kg         1           ND         0.099         mg/Kg         1           105         70-130         %Rec         1           97.5         70-130         %Rec         1           108         70-130         %Rec         1	ND         60         mg/Kg         20         8/3/2020 10:18:14 PM           ND         60         mg/Kg         1         7/31/2020 3:11:39 PM           ND         5.0         mg/Kg         1         7/31/2020 3:11:39 PM           101         70-130         %Rec         1         7/31/2020 3:11:39 PM           ANICS         Analyst           ND         9.9         mg/Kg         1         7/31/2020 5:37:24 PM           ND         49         mg/Kg         1         7/31/2020 5:37:24 PM           49.3         30.4-154         %Rec         1         7/31/2020 5:37:24 PM           49.3         30.4-154         %Rec         1         7/31/2020 5:37:24 PM           MD         49         mg/Kg         1         7/31/2020 5:37:24 PM           MD         0.025         mg/Kg         1         7/31/2020 3:11:39 PM           MD         0.025         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.050         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.050         mg/Kg         1         7/31/2020 3:11:39 PM           ND         0.099         mg/Kg         1         7/31/2020 3:11:39 PM     <		

Matrix: SOIL

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

Qualifiers:

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

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

RL Reporting Limit

Page 27 of 43

Lab ID:

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

2007E37-028

Devon Cotton Draw 181 SWD

Client Sample ID: AH-28 Surface Collection Date: 7/27/2020 12:05:00 PM Received Date: 7/29/2020 9:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	ND	60	mg/Kg	20	8/3/2020 10:30:35 PM	54139			
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/31/2020 3:40:18 PM	54045			
Surr: BFB	103	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045			
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: CLP			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/31/2020 5:48:03 PM	54051			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/31/2020 5:48:03 PM	54051			
Surr: DNOP	60.7	30.4-154	%Rec	1	7/31/2020 5:48:03 PM	54051			
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF			
Benzene	ND	0.025	mg/Kg	1	7/31/2020 3:40:18 PM	54045			
Toluene	ND	0.050	mg/Kg	1	7/31/2020 3:40:18 PM	54045			
Ethylbenzene	ND	0.050	mg/Kg	1	7/31/2020 3:40:18 PM	54045			
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 3:40:18 PM	54045			
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045			
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045			
Surr: Dibromofluoromethane	106	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045			
Surr: Toluene-d8	97.9	70-130	%Rec	1	7/31/2020 3:40:18 PM	54045			

Matrix: SOIL

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

Qualifiers:

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

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

Page 28 of 43

**Analytical Report** Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-29 H-North Collection Date: 7/27/2020 12:20:00 PM

Lab ID: 2007E37-029	Matrix: SOIL		<b>Received Date:</b> 7/29/2020 9:30:00 AM					
Analyses	Result	RL	RL Qual Units		DF Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	59	mg/Kg	20	8/3/2020 10:42:56 PM	54139		
EPA METHOD 8015D MOD: GASO	LINE RANGE				Analyst	: DJF		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 4:08:57 PM	54045		
Surr: BFB	99.1	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045		
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	: CLP		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 5:58:41 PM	54051		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 5:58:41 PM	54051		
Surr: DNOP	64.9	30.4-154	%Rec	1	7/31/2020 5:58:41 PM	54051		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: DJF		
Benzene	ND	0.025	mg/Kg	1	7/31/2020 4:08:57 PM	54045		
Toluene	ND	0.049	mg/Kg	1	7/31/2020 4:08:57 PM	54045		
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 4:08:57 PM	54045		
Xylenes, Total	ND	0.099	mg/Kg	1	7/31/2020 4:08:57 PM	54045		
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045		
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045		
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045		
Surr: Toluene-d8	101	70-130	%Rec	1	7/31/2020 4:08:57 PM	54045		

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

**Qualifiers:** 

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

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

Page 29 of 43

**CLIENT:** Safety & Environmental Solutions

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020 Client Sample ID: AH-30 Surface Collection Date: 7/27/2020 12:50:00 PM

otton Draw 181 SWD		(	Collection Dat	e:7/2	27/2020 12:50:00 PM	
-030	Matrix: SOIL		<b>Received Dat</b>	e: 7/2	29/2020 9:30:00 AM	
	Result	RL	Qual Units	DF	Date Analyzed	Batch
0: ANIONS					Analys	t: CAS
	ND	60	mg/Kg	20	8/3/2020 10:55:17 PM	54139
5D MOD: GASOLINE R	ANGE				Analys	t: DJF
anics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 4:37:36 PM	54045
	94.3	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
5M/D: DIESEL RANGE	ORGANICS				Analys	t: CLP
ics (DRO)	ND	9.9	mg/Kg	1	7/31/2020 6:09:15 PM	54051
anics (MRO)	ND	50	mg/Kg	1	7/31/2020 6:09:15 PM	54051
	98.6	30.4-154	%Rec	1	7/31/2020 6:09:15 PM	54051
B: VOLATILES SHOR	T LIST				Analys	t: DJF
	ND	0.025	mg/Kg	1	7/31/2020 4:37:36 PM	54045
	ND	0.049	mg/Kg	1	7/31/2020 4:37:36 PM	54045
	ND	0.049	mg/Kg	1	7/31/2020 4:37:36 PM	54045
	ND	0.099	mg/Kg	1	7/31/2020 4:37:36 PM	54045
ethane-d4	98.7	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
robenzene	95.1	70-130	%Rec	1	7/31/2020 4:37:36 PM	54045
	anics (GRO) 5 <b>M/D: DIESEL RANGE</b> ics (DRO) ganics (MRO)	-030 Matrix: SOIL Result 0: ANIONS 5D MOD: GASOLINE RANGE anics (GRO) ND 94.3 5M/D: DIESEL RANGE ORGANICS ics (DRO) ND ganics (MRO) ND 98.6 DB: VOLATILES SHORT LIST ND ND ND ND ND ND ND ND ND ND	-030 Matrix: SOIL Result RL 0: ANIONS ND 60 50 MOD: GASOLINE RANGE anics (GRO) ND 4.9 94.3 70-130 5M/D: DIESEL RANGE ORGANICS fics (DRO) ND 9.9 ganics (MRO) ND 50 98.6 30.4-154 DB: VOLATILES SHORT LIST ND 0.025 ND 0.049 ND 0.049 ND 0.099 ethane-d4 98.7 70-130	-030         Matrix: SOIL         Received Date           Result         RL         Qual         Units           0: ANIONS         ND         60         mg/Kg           5D MOD: GASOLINE RANGE         ND         60         mg/Kg           anics (GRO)         ND         4.9         mg/Kg           94.3         70-130         %Rec           5D/D: DIESEL RANGE ORGANICS         ymg/Kg           ganics (MRO)         ND         9.9           98.6         30.4-154         %Rec           OB: VOLATILES SHORT LIST         ND         0.025           ND         0.049         mg/Kg           ND         0.099         mg/Kg	-030         Matrix: SOIL         Received Date: 7/2           Result         RL         Qual         Units         DF           0: ANIONS         ND         60         mg/Kg         20           5D MOD: GASOLINE RANGE         ND         60         mg/Kg         1           94.3         70-130         %Rec         1           5D/D: DIESEL RANGE ORGANICS         94.3         70-130         %Rec         1           5M/D: DIESEL RANGE ORGANICS         98.6         30.4-154         %Rec         1           98.6         30.4-154         %Rec         1         1           DB: VOLATILES SHORT LIST         ND         0.025         mg/Kg         1           ND         0.049         mg/Kg         1         1         ND         0.049         mg/Kg         1           ND         0.049         mg/Kg         1         ND         0.049         mg/Kg         1           ND         0.049         mg/Kg         1         ND         0.049         mg/Kg         1           ND         0.049         mg/Kg         1         ND         0.049         mg/Kg         1           ND         0.099         mg/Kg	-030         Matrix:         SOIL         Received Date:         7/29/2020         9:30:00 AM           Result         RL         Qual         Units         DF         Date Analyzed           0: ANIONS         ND         60         mg/Kg         20         8/3/2020         10:55:17 PM           5D MOD:         GASOLINE RANGE         Frith         Analysi         Analysi           anics (GRO)         ND         4.9         mg/Kg         1         7/31/2020         4:37:36 PM           SM/D:         DIESEL RANGE ORGANICS         VARec         1         7/31/2020         4:37:36 PM           SM/D:         DIESEL RANGE ORGANICS         VARec         1         7/31/2020         6:09:15 PM           ganics (DRO)         ND         9.9         mg/Kg         1         7/31/2020         6:09:15 PM           ganics (MRO)         ND         9.9         mg/Kg         1         7/31/2020         6:09:15 PM           DB:         VOLATILES SHORT LIST         VARCe         1         7/31/2020         4:37:36 PM           ND         0.049         mg/Kg         1         7/31/2020         4:37:36 PM           ND         0.049         mg/Kg         1         7/31/2020

101

98.0

70-130

70-130

%Rec

%Rec

1

1

7/31/2020 4:37:36 PM

7/31/2020 4:37:36 PM

54045

54045

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

Qualifiers:

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

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

RL Reporting Limit

Page 30 of 43

Analytical Report Lab Order 2007E37

Date Reported: 8/5/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Client Sample ID: AH-31 Surface Collection Date: 7/27/2020 1:20:00 PM Received Date: 7/29/2020 9:30:00 AM

Lab ID: 2007E37-031	Matrix: SOIL		<b>Received Date:</b> 7/29/2020 9:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	CAS		
Chloride	ND	60	mg/Kg	20	8/3/2020 11:07:37 PM	54139		
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 5:06:15 PM	54045		
Surr: BFB	104	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045		
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	CLP		
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/31/2020 6:19:51 PM	54051		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/31/2020 6:19:51 PM	54051		
Surr: DNOP	88.9	30.4-154	%Rec	1	7/31/2020 6:19:51 PM	54051		
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF		
Benzene	ND	0.024	mg/Kg	1	7/31/2020 5:06:15 PM	54045		
Toluene	ND	0.049	mg/Kg	1	7/31/2020 5:06:15 PM	54045		
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 5:06:15 PM	54045		
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 5:06:15 PM	54045		
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045		
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045		
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045		
Surr: Toluene-d8	104	70-130	%Rec	1	7/31/2020 5:06:15 PM	54045		

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

Qualifiers:

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

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

Page 31 of 43

**CLIENT:** Safety & Environmental Solutions

Devon Cotton Draw 181 SWD

Analytical Report Lab Order 2007E37

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/5/2020
Client Sample ID: AH-32 Surface

Collection Date: 7/27/2020 1:50:00 PM

Lab ID: 2007E37-032 Matrix: SOIL Received Date: 7/29/2020 9:30:00 AM Result **RL** Oual Units **DF** Date Analyzed Batch Analyses Analyst: CAS **EPA METHOD 300.0: ANIONS** Chloride 290 60 mg/Kg 20 8/3/2020 11:19:57 PM 54139 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: DJF Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 7/31/2020 5:35:00 PM 54045 Surr: BFB 7/31/2020 5:35:00 PM 54045 102 70-130 %Rec 1 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP **Diesel Range Organics (DRO)** ND 9.6 mg/Kg 1 7/31/2020 6:30:17 PM 54051 Motor Oil Range Organics (MRO) ND 7/31/2020 6:30:17 PM 54051 48 mg/Kg 1 Surr: DNOP 120 30.4-154 %Rec 7/31/2020 6:30:17 PM 54051 1 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF 7/31/2020 5:35:00 PM ND 54045 Benzene 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 7/31/2020 5:35:00 PM 54045 Ethylbenzene ND 0.049 mg/Kg 1 7/31/2020 5:35:00 PM 54045 Xylenes, Total ND 0.098 mg/Kg 7/31/2020 5:35:00 PM 54045 1 Surr: 1,2-Dichloroethane-d4 99.4 70-130 %Rec 1 7/31/2020 5:35:00 PM 54045 Surr: 4-Bromofluorobenzene 98.5 70-130 %Rec 1 7/31/2020 5:35:00 PM 54045 Surr: Dibromofluoromethane 106 70-130 %Rec 1 7/31/2020 5:35:00 PM 54045 Surr: Toluene-d8 101 70-130 %Rec 1 7/31/2020 5:35:00 PM 54045

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

Qualifiers:

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

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

Page 32 of 43

Analytical Report Lab Order 2007E37

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Safety & Environmental Solutions

Project: Devon Cotton Draw 181 SWD

Date Reported: 8/5/2020 Client Sample ID: AH-33 Surface Collection Date: 7/27/2020 2:10:00 PM

Lab ID: 2007E37-033	Matrix: SOIL	<b>Received Date:</b> 7/29/2020 9:30:00 AM					
Analyses	Result	RL	Qual Units	DF Date Analyzed		Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	ND	60	mg/Kg	20	8/3/2020 11:32:17 PM	54139	
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	DJF	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/31/2020 6:03:42 PM	54045	
Surr: BFB	96.1	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	CLP	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/31/2020 6:40:36 PM	54051	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/31/2020 6:40:36 PM	54051	
Surr: DNOP	80.3	30.4-154	%Rec	1	7/31/2020 6:40:36 PM	54051	
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst	DJF	
Benzene	ND	0.024	mg/Kg	1	7/31/2020 6:03:42 PM	54045	
Toluene	ND	0.049	mg/Kg	1	7/31/2020 6:03:42 PM	54045	
Ethylbenzene	ND	0.049	mg/Kg	1	7/31/2020 6:03:42 PM	54045	
Xylenes, Total	ND	0.098	mg/Kg	1	7/31/2020 6:03:42 PM	54045	
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045	
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045	
Surr: Dibromofluoromethane	107	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045	
Surr: Toluene-d8	98.3	70-130	%Rec	1	7/31/2020 6:03:42 PM	54045	

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

Qualifiers:

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

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

Page 33 of 43

2007E37

05-Aug-20

WO#:

				03-Aug
Client: Project:	•	z Environmental Solutions Cotton Draw 181 SWD		
Sample ID: M	B-54130	SampType: <b>mblk</b>	TestCode: EPA Method 300.0: Anions	
Client ID: PE	BS	Batch ID: 54130	RunNo: 70807	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2464841 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID: LC	CS-54130	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LC	CSS	Batch ID: 54130	RunNo: 70807	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2464842 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 95.0 90 110	
Sample ID: MI	B-54139	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PE	BS	Batch ID: 54139	RunNo: 70812	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2465249 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID: LC	CS-54139	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LC	CSS	Batch ID: 54139	RunNo: 70812	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2465250 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 92.0 90 110	
Sample ID: M	B-54133	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID: PE	BS	Batch ID: 54133	RunNo: 70785	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2465333 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID: LC	CS-54133	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LC	CSS	Batch ID: 54133	RunNo: 70785	
Prep Date: 8	3/3/2020	Analysis Date: 8/3/2020	SeqNo: 2465334 Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 0 91.4 90 110	

#### Qualifiers:

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

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

Page 34 of 43

•	c Environmental Solutions Cotton Draw 181 SWD								
Sample ID: LCS-54043	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54043	RunNo: 70757							
Prep Date: 7/29/2020	Analysis Date: 7/30/2020	SeqNo: 2462544 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	43 10 50.00	0 86.1 70 130							
Surr: DNOP	4.0 5.000	79.6 30.4 154							
Sample ID: MB-54043	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54043	RunNo: <b>70757</b>							
Prep Date: 7/29/2020	Analysis Date: 7/30/2020	SeqNo: 2462545 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50	444 004 454							
Surr: DNOP	11 10.00	114 30.4 154							
Sample ID: MB-54047	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 54047	RunNo: 70804							
Prep Date: 7/29/2020	Analysis Date: 7/31/2020	SeqNo: 2464707 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.9 10.00	99.4 30.4 154							
Sample ID: MB-54051	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 54051	RunNo: 70804							
Prep Date: 7/29/2020	Analysis Date: 7/31/2020	SeqNo: 2464708 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	12 10.00	124 30.4 154							
Sample ID: LCS-54047	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54047	RunNo: 70804							
Prep Date: 7/29/2020	Analysis Date: 7/31/2020	SeqNo: 2464709 Units: mg/Kg							
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	4.8 5.000	95.1 30.4 154							

#### Qualifiers:

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

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

2007E37

05-Aug-20

Page 85 of 104

Client: Project:	·	Environme otton Draw									
Sample ID:	LCS-54051	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch	ID: 54051 RunNo: 70804								
Prep Date:	7/29/2020	Analysis D	ate: 7/	31/2020	S	eqNo: 2	464710	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	58	10	50.00	0	116	70	130			
Surr: DNOP		5.7		5.000		115	30.4	154			
Sample ID:	2007E37-002AMS	SampT	ype: <b>MS</b>	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	AH-2 Surface	Batch ID: 54047 RunNo: 70804									
Prep Date:	7/29/2020	Analysis D	ate: 7/	31/2020	SeqNo: 2464755 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	45	9.4	47.17	0	96.1	47.4	136			
Surr: DNOP		4.6		4.717		97.6	30.4	154			
Sample ID:	2007E37-002AMS	D SampT	ype: <b>MS</b>	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	AH-2 Surface	Batch	ID: 54	047	F	lunNo: 7	0804				
Prep Date:	7/29/2020	Analysis D	ate: 7/	31/2020	S	eqNo: 24	464758	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	50	9.1	45.66	0	110	47.4	136	10.6	43.4	
Surr: DNOP		5.7		4.566		125	30.4	154	0	0	

Qualifiers:

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

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

Page 36 of 43

2007E37

05-Aug-20

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

Project:	5	otton Draw									
Sample ID:	2007e37-002ams	SampT	vpe: <b>M</b> \$	6	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
•	AH-2 Surface		ID: 54			RunNo: 7			5		
	7/29/2020	Analysis D		-		SeqNo: 2		Units: mg/K	a		
·	1120/2020							•	•		<b>A</b> 1
Analyte	o Organico (CDO)	Result 22	PQL 4.9	SPK value 24.58	SPK Ref Val	%REC 89.0	LowLimit 61.3	HighLimit 114	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	22 1100	4.9	24.58 983.3	0	89.0 109	61.3 75.3	114			S
		1100		905.5		103	75.5	105			5
Sample ID:	2007e37-002amsd	SampT	ype: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	AH-2 Surface	Batch	ID: 54	044	F	RunNo: 7	0754				
Prep Date:	7/29/2020	Analysis D	analysis Date: 7/31/2020 SeqNo: 2462780 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	20	4.8	24.15	0	82.2	61.3	114	9.69	20	
Surr: BFB		1000		966.2		108	75.3	105	0	0	S
Sample ID:	lcs-54044	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 54	044	F	RunNo: 7	0754				
Prep Date:	7/29/2020	Analysis D	ate: 7/	31/2020	S	SeqNo: 2	462804	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	20	5.0	25.00	0	81.8	72.5	106			
Surr: BFB		1100		1000		105	75.3	105			S
Sample ID:	mb-54044	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: 54	044	F	RunNo: 7	0754		-		
Prep Date:	7/29/2020	Analysis D	ate: 7/	31/2020		SeqNo: 2		Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0					-			
Surr: BFB		1000		1000		99.9	75.3	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

2007E37

05-Aug-20

Client:Safety & IProject:Devon Co										
Sample ID: 2007e37-003ams	Samp <sup>-</sup>	Гуре: МS	3	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: AH-3 H-West	Batc	h ID: 54	044	F	unNo: 7	)754				
Prep Date: 7/29/2020	Analysis [	Date: 7/	31/2020	S	eqNo: 24	462879	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9728	0	97.2	76.3	120			
Toluene	0.99	0.049	0.9728	0.01032	101	78.5	120			
Ethylbenzene	1.0	0.049	0.9728	0	103	78.1	124			
Xylenes, Total	3.0	0.097	2.918	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9728		106	80	120			
Sample ID: 2007e37-003amsd	Samp	Гуре: МS	SD	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: AH-3 H-West	Batc	h ID: 54	044	F	tunNo: 7					
Prep Date: 7/29/2020	Analysis [	Date: 7/	31/2020	SeqNo: 2462880			Units: mg/k	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9756	0	95.6	76.3	120	1.29	20	
Toluene	0.98	0.049	0.9756	0.01032	99.2	78.5	120	1.23	20	
Ethylbenzene	1.0	0.049	0.9756	0	103	78.1	124	0.552	20	
Xylenes, Total	3.0	0.098	2.927	0	104	79.3	125	0.427	20	
Surr: 4-Bromofluorobenzene	1.0		0.9756		104	80	120	0	0	
Sample ID: LCS-54044	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 54	044	F	lunNo: 7					
Prep Date: 7/29/2020	Analysis [	Date: 7/	31/2020	S	462903	Units: mg/k	íg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			
Sample ID: mb-54044	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Vola	iles		
Client ID: PBS	Batc	h ID: 54	044	F	lunNo: 7	0754				
Prep Date: 7/29/2020	Analysis [	Date: 7/	31/2020	S	eqNo: 24	462904	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120										

#### Qualifiers:

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

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

- WO#: 2007E37
  - 05-Aug-20

Released to Imaging: 1/6/2023 8:12:20 AM

**Client:** 

**Project:** 

Client ID:

Analvte

Ethylbenzene

Xylenes, Total

Benzene

Toluene

Sample ID: mb-54042

Prep Date: 7/29/2020

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

PBS

## **QC SUMMARY REPORT** Hall Environmental Analysis Labo

0.49

0.52

ND

ND

0.50

0.51

0.53

0.51

0.050

0.10

0.5000

0.5000

0.5000

0.5000

0.5000

0.5000

	Y REP( tal Anal	-		ory, Inc.					WO#:	2007E37 05-Aug-20
•	& Environm Cotton Drav									
042	SampT	Гуре: МЕ	BLK	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List	
	Batcl	h ID: 540	042	R						
2020	Analysis E	Date: 7/	30/2020	S	SeqNo: 2	462167	Units: mg/ł	٢g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ND	0.025								
	ND	0.050								
	ND	0.050								
	ND	0.10								
ane-d4	0.51		0.5000		102	70	130			

130

130

Surr: Toluene-d8	0.48		0.5000		96.4 70		130			
Sample ID: Ics-54042	Samp	Гуре: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 54	042	F	RunNo: <b>70747</b>					
Prep Date: 7/29/2020	Analysis [	Date: 7/	30/2020	S	SeqNo: 2	462168	Units: <b>mg/K</b>	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.5	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		95.6	70	130			
Sample ID: mb-54045	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 54	045	F	RunNo: 7	0747				
Prep Date: 7/29/2020	Analysis [	Date: 7/	31/2020	5	SeqNo: 2	462218	Units: <b>mg/K</b>	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								

99.0

103

70

70

70

70

70

70

130

130

130

130

**Qualifiers:** 

Ethylbenzene

Xylenes, Total

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

в Analyte detected in the associated Method Blank

99.4

103

106

102

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

•	Environm otton Drav												
Sample ID: Ics-54045	Samp	Type: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List				
Client ID: BatchQC	Batc	h ID: 54	045	F	RunNo: 7	0747							
Prep Date: 7/29/2020	Analysis I	Date: 7/	30/2020	S	SeqNo: 24	462219	Units: mg/K	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.97	0.025	1.000	0	97.4	80	120						
Toluene	0.99	0.050	1.000	0	98.9	80	120						
Ethylbenzene	1.0	0.050	1.000	0	101	80	120						
Xylenes, Total	3.2	0.10	3.000	0	107	80	120						
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		105	70	130						
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130						
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130						
Surr: Toluene-d8	0.49		0.5000		98.4	70	130						
Sample ID: 2007e37-022ams	Samp	Туре: <b>М</b>	64	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List				
Client ID: AH-24 Surface	Batc	h ID: <b>54</b>	045	F									
Prep Date: 7/29/2020	Analysis I	Date: 7/	31/2020	S	SeqNo: 24	462221	Units: <b>mg/K</b>	(g					
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.99	0.025	0.9872	0	101	71.1	115						
Toluene	1.0	0.049	0.9872	0	103	79.6	132						
Ethylbenzene	1.1	0.049	0.9872	0	106	83.8	134						
Xylenes, Total	3.3	0.099	2.962	0	111	82.4	132						
Surr: 1,2-Dichloroethane-d4	0.48		0.4936		96.8	70	130						
Surr: 4-Bromofluorobenzene	0.48		0.4936		97.0	70	130						
Surr: Dibromofluoromethane	0.53		0.4936		108	70	130						
Surr: Toluene-d8	0.49		0.4936		98.8	70	130						
Sample ID: 2007e37-022amso	<b>d</b> Samp	Туре: <b>МS</b>	SD4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List				
Client ID: AH-24 Surface	Batc	h ID: 54	045	F	RunNo: 70	0747							
Prep Date: 7/29/2020	Analysis I	Date: 7/	31/2020	S	SeqNo: 24	462222	Units: <b>mg/K</b>	(g					
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.95	0.024	0.9497	0	99.6	71.1	115	4.82	20				
Toluene	1.0	0.047	0.9497	0	109	79.6	132	1.94	20				
Ethylbenzene	1.1	0.047	0.9497	0	111	83.8	134	0.766	20				
	0.4	0.095	2.849	0	118	82.4	132	2.81	20				
Xylenes, Total	3.4	0.000											
Xylenes, Total Surr: 1,2-Dichloroethane-d4	3.4 0.48	0.000	0.4748		101	70	130	0	0				
•			0.4748 0.4748		101 101	70 70	130 130	0 0	0 0				
,	0.48												

#### **Qualifiers:**

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

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

2007E37

05-Aug-20

•	& Environmental S Cotton Draw 181 S								
Sample ID: mb-54070	SampType: <b>N</b>	IBLK	Test	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: PBS	Batch ID: 5	4070	R	lunNo: 70	0769				
Prep Date: 7/30/2020	Analysis Date:	7/31/2020	S	eqNo: 24	462806	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.50	0.5000		99.5	70	130			
Surr: 4-Bromofluorobenzene	0.49	0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.54	0.5000		107	70	130			
Surr: Toluene-d8	0.52	0.5000		104	70	130			
Sample ID: Ics-54070	SampType: L	CS4	Test	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batch ID: 5	4070	R	lunNo: <b>7(</b>	0769				
Prep Date: 7/30/2020	Analysis Date:	7/31/2020	S	eqNo: 24	462807	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.49	0.5000		97.0	70	130			
Surr: 4-Bromofluorobenzene	0.48	0.5000		95.1	70	130			
Surr: Dibromofluoromethane	0.52	0.5000		104	70	130			
Surr: Toluene-d8	0.49	0.5000		97.3	70	130			
Sample ID: mb1	SampType: <b>N</b>	IBLK	Test	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: PBS	Batch ID: S	70775	RunNo: 70775						
Prep Date:	Analysis Date:	8/1/2020	S	eqNo: 24	463032	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.52	0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.51	0.5000		102	70	130			
Surr: Dibromofluoromethane	0.55	0.5000		110	70	130			
Surr: Toluene-d8	0.50	0.5000		100	70	130			
Sample ID: 100ng Ics	SampType: L	CS4	Test	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batch ID: S	70775	R	lunNo: <b>7(</b>	0775				
Prep Date:	Analysis Date: 8	8/1/2020	S	eqNo: 24	463033	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.51	0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.51	0.5000		102	70	130			
Surr: Dibromofluoromethane	0.53	0.5000		107	70	130			
Surr: Toluene-d8	0.51	0.5000		101	70	130			

#### Qualifiers:

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

Released to Imaging: 1/6/2023 8:12:20 AM

- 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

# WO#: 2007E37

•	Environmental otton Draw 181					
Sample ID: mb-54042	SampType:	MBLK	Tes	tCode: EPA Method	I 8015D Mod: Gasoline	Range
Client ID: PBS	Batch ID:	54042	F	RunNo: <b>70747</b>		
Prep Date: 7/29/2020	Analysis Date:	7/30/2020	ç	SeqNo: <b>2462229</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5	.0				
Surr: BFB	480	500.0		96.1 70	130	
Sample ID: Ics-54042	SampType:	LCS	Tes	tCode: EPA Method	8015D Mod: Gasoline	Range
Client ID: LCSS	Batch ID:	54042	F	RunNo: <b>70747</b>		
Prep Date: 7/29/2020	Analysis Date:	7/30/2020	S	SeqNo: <b>2462230</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5	.0 25.00	0	96.3 70	-	
Surr: BFB	510	500.0		102 70	130	
Sample ID: mb-54045	SampType:	MBLK	Tes	tCode: EPA Method	I 8015D Mod: Gasoline	Range
Client ID: PBS	Batch ID:	54045	F	RunNo: <b>70747</b>		
Prep Date: 7/29/2020	Analysis Date:	7/31/2020	S	SeqNo: <b>2462278</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5	.0			-	
Surr: BFB	510	500.0		101 70	130	
Sample ID: Ics-54045	SampType:	LCS	Tes	tCode: EPA Method	8015D Mod: Gasoline	Range
Client ID: LCSS	Batch ID:	54045	F	RunNo: <b>70747</b>		
Prep Date: 7/29/2020	Analysis Date:	7/31/2020	S	SeqNo: <b>2462279</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5	.0 25.00	0	97.0 70	130	
Surr: BFB	520	500.0		105 70	130	
Sample ID: 2007e37-023ams	SampType:	MS	Tes	tCode: EPA Method	I 8015D Mod: Gasoline	Range
Client ID: AH-24 1ft	Batch ID:	54045	F	RunNo: <b>70747</b>		
Prep Date: 7/29/2020	Analysis Date:	7/31/2020	S	SeqNo: <b>2462282</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)		.8 24.25	0	92.0 49.2	<b>°</b>	
Surr: BFB	490	485.0		101 70	130	
Sample ID: 2007e37-023amsc	SampType:	MSD	Tes	tCode: EPA Method	I 8015D Mod: Gasoline	Range
Client ID: AH-24 1ft	Batch ID:			RunNo: <b>70747</b>		-
Prep Date: 7/29/2020	Analysis Date:			SeqNo: 2462283	Units: <b>mg/Kg</b>	
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC LOWLIMIT	HighLimit %RPD	KPULIMIT Qual

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

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

Page 42 of 43

2007E37

05-Aug-20

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

Project:	5	otton Draw									
Sample ID:	2007e37-023amsd	SampT	ype: <b>M</b> \$	SD	Tes	tCode: El	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	AH-24 1ft	Batch	ID: 54	045	F	RunNo: 7	0747				
Prep Date:	7/29/2020	Analysis Da	ate: 7/	31/2020	S	SeqNo: 24	462283	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	24.90	0	92.7	49.2	122	3.39	20	
Surr: BFB		500		498.0		101	70	130	0	0	
Sample ID:	mb-54070	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod: (	Gasoline	Range	
Client ID:	PBS	Batch	ID: 54	070	F	0769					
Prep Date:	7/30/2020	Analysis Da	ate: 7/	/31/2020 SeqNo: 2462847 Units: %Rec							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		520		500.0		103	70	130			
Sample ID:	lcs-54070	SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID:	LCSS	Batch	ID: 54	070	F	RunNo: 7	0769				
Prep Date:	7/30/2020	Analysis Da	ate: 7/	31/2020	S	SeqNo: 24	462848	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		520		500.0		103	70	130			
Sample ID:	mb1	SampT	ype: MB	BLK	Tes	tCode: El	PA Method	8015D Mod: (	Gasoline	Range	
Client ID:	PBS	Batch	ID: <b>G7</b>	0775	F	RunNo: 7	0775				
Prep Date:		Analysis D	ate: <b>8/</b>	1/2020	S	SeqNo: 24	463070	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		510		500.0		103	70	130			
Sample ID:	2.5ug gro lcs	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod: (	Gasoline	Range	
Client ID:	LCSS	Batch	ID: <b>G7</b>	0775	F	RunNo: 7	0775				
Prep Date:		Analysis Da	ate: <b>8/</b>	1/2020	S	SeqNo: 24	463071	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		500		500.0		99.7	70	130			

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

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

RL Reporting Limit

Page 43 of 43

2007E37

05-Aug-20

ANALY	DNMENTAL Sis Atory	TEL: 505-345-	ental Analysis Lal 4901 Haw Albuquerque, NI 3975 FAX: 505-3 its.hallenvironmer	kins NE 187109 <b>Se</b> 15-4107	Sample Log-In Check List							
	Safety & Environmental Solutions	Work Order Nun	nber: 2007E37		RcptN	p: 1						
Received By:	Cheyenne Cason	7/29/2020 9:30:00	AM									
Completed By:	Juan Rojas	7/29/2020 9;55:50	AM	Hanney	3-							
Reviewed By:	R	7/29/23										
<u>Chain of Cust</u>	ody											
1. Is Chain of Cus	stody complete?		Yes 🗹	No 🗌	Not Present							
2. How was the sa	ample delivered?		Courier									
<u>Log In</u> 3. Was an atterno	t made to cool the samples	2	Yes 🖌	No 🗌								
				140								
4. Were all sample	es received at a temperature	e of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌							
5. Sample(s) in pr	oper container(s)?		Yes 🗹	No 🗌								
6. Sufficient sampl	e volume for indicated test(	s)?	Yes 🗹	No 🗌								
7, Are samples (ex	cept VOA and ONG) prope	rly preserved?	Yes 🖌	No 🗌								
8. Was preservativ	e added to bottles?		Yes 🗌	No 🔽	NA 🗌							
9. Received at leas	st 1 vial with headspace <1/	4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹							
10. Were any samp	le containers received broke	en?	Yes 🗌	No 🗹	# of preserved							
	match bottle labels? cies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH:							
	Tectly identified on Chain of	Custodv?	Yes 🗹	No 🗌	Adjusted?	r <sup>r</sup> >12 unless noted)						
	nalyses were requested?	,	Yes 🗹	No 🗌								
	times able to be met? tomer for authorization.)		Yes 🗹	No 🗌	Checked by:	79 7.29,20						
<u>Special Handlin</u>	a (if applicable)											
	ed of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹							
Person No	otified:	Date		·	· ·	]						
By Whom:		Via:	eMail	Phone   Fax	🖌 🔲 In Person							
Regarding	· · · · · · · · · · · · · · · · · · ·	······································										
Client Inst	ructions:											
16. Additional rema	ırks:											
	CONTRACTOR OF A	eal Intact Seal No	Seal Date	Signed By								

Cocle	r No lemp	C   Conditie	n   Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good				
2	2.3	Good				
3	4.9	Good			<u> </u>	

Page 1 of 1

<b>Received by OCD: 11/17/2</b> (22)	9:32:42 AM												Pa	ge 95 oj	F 104
A L															
<b>ERONMENTAL</b> LABORATOR ental.com que, NM 87109 35-345-4107 equest												<b> </b>			ĮĘ
			¥.												ical rej
<b>M</b> 2710 07										-		$ \rightarrow $			analyti
<b>/IRONN</b> <b>5 LABOI</b> mental.com erque, NM 87 505-345-4107 Request	- Children -	$\bowtie$	[						-	┢──	$\square$	X			in the
<b>/IRO</b> <b>5 LAE</b> nental.cc erque, NI 505-345. Request	Total Coliform (Present/Absent)														tated c
HALL ENVIRONMENT ANALYSIS LABORAT www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request			- -							<u> </u>					arly not
HALL ENVI ANALYSIS www.hallenvironme kins NE - Albuquer 845-3975 Fax 50 Analysis Ré	(AOV) 0928													υ.,	be clea
L ⊂ E allen Ana	Cl' E' Bt' NO <sup>3</sup> ' NO <sup>3</sup> ' bO <sup>⊄'</sup> 80 <sup>⊄</sup>												3.9.5	054.96	a will t
<b>NL</b> W.h. NE 3975	RCRA 8 Metals									<b> </b>			()	, i,	ed dat
<b>H</b> A <b>A</b> N w kins 3453	PAHs by 8310 or 8270SIMS									<b> </b>			00	O I L I	ontract
Haw 505	EDB (Method 504.1)									 			10- N	, 2 , 2	sub-cc
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	8081 Pesticides/8082 PCB's											$\overline{\mathbf{x}}$	9.5. 5.5	12	. Any
	TPH:8015D(GRO / DRO / MRO)	Z	` <u> </u>			_						Å	Remarks:3.9± っ		sibility
	BTEX / MTBE / TMB's (8021)	$\geq$						<u> </u>				$\ge$	Ц¢е	1 -	- in sin
								-				->	Time O Son	ime 69,30	e of t
dang 181 Swin	NOCRE 37	-	-002	-003	004	-005	-00 C	-007	-008	010	10-	210-	Time O So	Time	s rotic
2 25		001	ð	ي (	9	τ	9	ĩ	1 7	۲ſ	Ĩ	· · ·	• J		
N 6 8													Date 1242	Date	가
ime: 5 d Dovor 10 Dovor 10 Dovor 10											$\vdash$		12		ries.
D-D	ager: Preservative Type														borato
	ler:	P.											∠ia:	Via:	ited la
	Project Manager:	1)											> \	Via: 0 arrvv	
	Project Manag Sampler: S On Ice: D Conler: Coolens: Container F Type and #											7			) defe
Turm-Aron Project N D C O T D C	Project Mar Sampter: On Ice: Cooler Container Type and #	$\neg$	_			_	-	<b>_</b>		_			Received by	Received by	ted to
	Pro T C Coc T Yp					-				b			Rec	Rece	
	(uc	UNRTH		<b>L</b>		ì	Ħ		<del>,</del> ,	OUTHENSI	4	c			If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
d	□ Level 4 (Full Validation) npliance Sample Name	<u>V</u> ên	3	Ľ	3	3	S.	3	見た	S	L	- Z	,		may b
ustody Reco	je je	4~	्रेडे	0 -	3	7	X	캌	\$\ <b>`</b>	$\uparrow$	2	À	>	+-	nental
SAS ER	□ Level 4 (Full V mpliance Sample Name		Vq	1	M	Vq	L	<b>}∛</b>  `	承收	オ	Ŵ	$\mathcal{N}$	ţ		vironn
2 2 5 5 5 V		-	ン	$\mathcal{N}$	3		اهر		ioo-	0	È	5	لا	h	all Er
Los Los	Az Compliance Other atrix Sample	H H	Z	X	王	Ħ	X		E E	44-1	<del>411</del>	AH-	ہ ج	×	ed to I
Sin Charles		<u> </u>	V	<u> </u>	~~	×		3	<u> </u>		Y	2	Relineration by:	shed by	nbmitt
2 × 2 2 2 1	□ Az Co □ Other Matrix		$\sim \downarrow$	5	S	$\mathcal{N}$	$\langle N \rangle$	$\sim  $	$\sqrt{N}$	$\mathbf{\nabla}$	$\mathbb{N}$	$\langle v  $	ĬX	1200	Ples s
n-of-C															y, sam
Alters: 1	- Fax#: Package dard AC (Type) Time	S.	Z	3	7	2415	0935	~ ~	0/2	<u>(040</u>	1100	0711	Time: Ö <b>Ø</b> Ø	ime:	essar
	nail or Fax#: VOC Package Standard creditation: NELAC EDD (Type) EDD (Type) tig Time		4		2	$\sim$	Õ	0-	<u>0</u> 0	1/0				Time:	ľ ľ
Client: Chain-o Client: Chain-o Mailing Address: Mailing Address: Phone #: 575		শ্ব	ŀ	- 1	À	124	$ \rightarrow $	$\rightarrow$	$\checkmark$		$ \downarrow \downarrow$	24	Date 7120	Date:	
$ O    \geq  \nabla  \overline{c} $ Palaased to Imaging: 1/6/2022	5 3 b  2 □ □ <u> </u>	6			0	2		]			Ĺ	لم			

I

<b>Received by OCD: 11/17/2</b> 022	9:32:42 AM										Pag	ge 96 of 1	04
AL										<u> </u>			
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request										<u> </u>			eport.
								$\left  \right $					Intical r
<b>/IRONN</b> <b>5 LABOI</b> mental.com erque, NM 87- 505-345-4107 Request	Chlow der	$\bowtie$		+				┝╼┼		$\mathbf{X}$			the ana
AE AE al.co e, NN 345- Uest	Total Coliform (Present/Absent)		· · · · ·										ed on 1
<b>ENVIRONME LYSIS LABOR/</b> allenvironmental.com - Albuquerque, NM 87109 Eax. 505-345-4107 Analysis Request	(AOV-ime2) 0728												lv notat
<b>ENV</b> <b>ENV</b> <b>LYSIS</b> allenvironn - Albuqu - Albuqu	(AOV) 0928										)	r T	e clear
<b>IALL ENVIRON</b> <b>NALYSIS LABC</b> www.hallenvironmental.com ins NE - Albuquerque, NM 8 15-3975 Fax 505-345-41 Analysis Request	CI' E' BL' NO <sup>3</sup> ' NO <sup>5</sup> ' EO <sup>4</sup> ' 2O <sup>4</sup>										3.6	2	a will b
<b>ALI</b> <b>VA</b> ww.h s NE -397;	PAHs by 8310 or 8270SIMS PCRA 8 Metals			_	· ·						11 13	11	ted dat
HALL ANAL www.ha Hawkins NE 505-345-3975	EDB (Method 504.1)										970	4	contrac
HALL ANAL www.ht 4901 Hawkins NE Tel. 505-345-3975	8081 Pesticides/8082 PCB's										Remarks: 2, 9 2, 3	4.920	-dus yn
4901	ТРН:8015D(GRO / DRO / MRO)	X		+-				┝╼╁╸		X	arks:		ility. A
	(1208) 8'8MT \ 387M \ X378	X								Ŕ	Rem		possib
	<u></u>										8		of this
27 137 Sun	L L L L L L L L L L L L L L L L L L L		· · · ])		Ľ.	·			20	-01Y	Time <i>P</i> POD	Time 09,30	s notice
		013	510	-010	10-	-015	-020	-021	- 073	2	20	2	ives at
10. 5 dey 1. 5 dey Jewon (8/ ZO-033		Ň	7	Ĩ	ì	ł		ŧ			Date	, Date 29/20	This se
0 5 7 0													tories.
20-0 ZD-6		3											laborat
	Project Manager: A L Lew, So Sampler: So N So Con Ice: So Yes the Solers: So Cooler Temp(including CF): So Cooler Temp(including CF): So Container Preservative Type and # Type	र्									≺ia:	Via: Wruf	redited
		<u>v</u>									$\mathbb{Z}$	2	ner acc
Turn-Around T Zestandard Project Name: Project #:	Project Manager:							<u> </u>			Received by	aived by	id to oth
	Project M Sampler: On Ice: Cooler T Containe Type and										Receiv	Receivéd CM	Intracte
			7	1 5	ન	<b>b-</b>	د ۱	1	3	S.			e subcc
	<ul> <li>Level 4 (Full Validation)</li> <li>npliance</li> <li>Sample Name</li> </ul>	2	- the	323	र्च	A CI	뙷국	1		Euni			may b
y Record	Je Ja	1 A			1	4		2	} \ \ \	A <sup>r</sup>	5	۹. I	imental
129 V	Level 4 (Full V     npliance     Sample Name			ľ	$\mathbb{Z}$	$\sim$	6	ĽĽ,	10 4	2	, Ę	$  \rangle  $	Environ
Stody Stody		T	121	1-1-	T.	200		1-7	1474	F-2.	-H	$\square$	o Hall B
		Å.	H	筆	AH	R.		44-	<u>A</u>	<u>At</u>	Relined By:		nitted t
	atrix Other						600				antafied by	Relinquished by	es subi
Chain-of-Custody Record Soluty + OUMANNEW Solutrows Mhs N. M. 88240 ett. 575-3970570		<u>v'</u>	<u>\</u>	$\gamma \gamma$	N)	$\sim$			<u>( \r}</u>	1			If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Client: Shain-of- Client: Shurd Mailing Address: 7 Phone #: 575 -	d d ::	140	1200	250	310	<u> </u>	22	Dqoo	04250 DASO	(015	. 8	ime:   <i>Îd</i>	essary,
# Do Chai	email or Fax#: QA/QC Package: C Standard Accreditation: D NELAC Date Time	1	212	42	12				2/2	Q	Time: Doro	Time:	If nec
Client: C	email or Fa QA/OC Pac CJ Standal Accreditati Date Tir	124	$\downarrow$	$\uparrow$	H	لم	12	LI	`	121	128 128	ate: Zatu	
∪   ≥  ]¤		61					ه'ا_	5		PQ1	Ľ loga log		

Released to Imaging: 1/6/2023 8:12:20 AM

	<b>Received by OCD: 11/17/2022</b>	9:32:42 AM			Τ							Τ		Ť	T	Pa	ge 97	of 104	4
	J Å F															1			
	<b>₽</b> io															]		4	Ë
•											-			Γ	Τ	1		altdic.	Jaiyuc
		Mondar	)	imes		-						X						tha ar	li le ca
	le, N le, N ues	tal Çoliform (Present/Absent)																Lo Po	
	HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV-im92) 07	28														,	v notal	
	SI: SI: Airon buqu Sis	(AOV) 03	28													90	ຽລ່	cleart	la Cica
		'E' BL' NO <sup>3</sup> ' NO <sup>5</sup> ' EO <sup>4</sup> ' 2O <sup>4</sup>	ю													3.9	92	will be	
	AL AL v.ha VE 975	sletals 8 AAC	Ы													17	1 0	data	
	HAL ANA www.h kins NE 45-397	2012 SMIS0728 or 8270SIMS	Ч										1			, C	2 4 4 1 4 1 0 0	racted	פלופר
	HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	(1.402 bonteM) 80	EI											-		Remarks: $3 \cdot q \pm c$	00	h-cont	
	ei 2(	81 Pesticides/8082 PCB's	)8													$\mathcal{O}_{\mathcal{O}}$	C V		5
	<b>4</b> 43	H:8015D(GRO / DRO / MRO)	ιŢ	X		-										arks		ility. A	
		(1208) a'amt \ Jatm \ XJ	.8	X	-				_			K				Rem		possib	
																	Τ		
	Saud	HEAL No.		È	~>	r+		~	0			~				Lime	Line	69 30 s notice of th	
			Ч Ч	025	2026	-017	200-	-029	-030	- (03)	-032	-033		1		ר ק ג	_  ⊨		}
	23 8 Par		2	- C				٢	Ţ	1	Ţ	Ł				Date Date	) ate	S servi	
	2 2																	" This	: :
	10: 5 dey Devision 18/ 18/18/		Ì														`	atorie:	
	E: AURV BAU			ろ								Ì				-		1 labor	
		ager:		7												<u>;</u> ä ∕≺	Kia:	CLW-	
		Pre-		$\mathbf{b}$	·	_										19			
	urn-Around - Standard roject Name roject #:	tiner Te								(								to off	:
	Turn-Around T Standard Project Name: Project #:	Project Manager: Project Manager: Sampler:	I ype and #	5		1				_						Received by:	Received by	racted	
			+	NDMTH6NT			<u> </u>	ł		)	)				┝──┤	<u>د</u>	<u>8</u> (	ୖ୷ୢଵ	ł
	mon	Level 4 (Full Validation)		됯	3	2	3	Food Mag	2	3	7	ع						y be st	
	-Custody Record d Grubbanneutr NTOZ E. Churr N. N. 88240			3	- And	25	- Ta	び	\$	2	J~~		2					tal ma	
				Ŧ	Võ	NU.	<i>N</i>	Ł	$\sqrt{\frac{1}{2}}$	5	Ś	N. Fr				\$		umen	
			ž		_0		00		0		2					7		Enviro	
	D J J J USA O		븨	3	5	442	-28	-29	30	3	-31	5				المست	[]	Hall	
	NANE E Sto		ן קר מ	1-1-2- 1-1-2-3	<u>AH-2</u>	Å	4H	A H	AH-3	AH-	A4-3	<del>4</del> H			đ	يد مريد	ned by:<∕	itted to	
	WE CL		╈						~						<u> </u>		E I	subm	
		□ Level		٧٦	V	M	<b>V</b>	$\sim$	Μ	M	$\wedge$	$\mathcal{N}$				Kelingwished by:	Relind	S la	
			7	0	$\overline{\mathcal{N}}$	5	5	হ		0	9	Ŝ						ary, sa	
	Chain-of-Custody Record Subur & Grubonneutr Subur 103 C. Unre Address: 7103 C. Unre	Typ		1050	IJ	114	Ľ	1220	1251	1320	125	Ith					Lime:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical remot	
	Client: Chain- Client: Chain- Mailing Address: Phone #: 57	히 핫 틷 호 빅임		~	-		7					5		$\dashv$		20 DEC		<u>≽</u> z⊺≞	
	Client:<			4	. \	$\neg$	$\square$				~	$\frac{n}{2}$					Date:	alk	
	D.1	9.12.20 414					L								<u>L</u>	<u> </u>		الند	

Released to Imaging: 1/6/2023 8:12:20 AM

Page 6

Oil Conservation Division

Incident ID	NAB1530234949
District RP	
Facility ID	
Application ID	

# Closure

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following i	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and ren human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	_ Date: <u>11/17/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Page 6

Oil Conservation Division

Incident ID	NAB1626756642
District RP	
Facility ID	
Application ID	

# Closure

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dals Woodall	Date: <u>11/17/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	

Page 6

Oil Conservation Division

Incident ID	NOY1701331626
District RP	
Facility ID	
Application ID	

# Closure

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

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following i	tems must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in				
Signature: Dale Woodall	Date:11/17/2022				
email: <u>dale.woodall@dvn.com</u>	Telephone:575-748-1838				
OCD Only					
Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				
_					

•

Page 6

Oil Conservation Division

Page 101 of 104

Incident ID	NAB1726355760
District RP	
Facility ID	
Application ID	

# Closure

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following it	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Dale Woodall	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Signature: Dale Woodall	Date: <u>11/17/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

Oil Conservation Division

Incident ID	NRM2003439614
District RP	
Facility ID	
Application ID	

# Closure

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
	_ little:Env. Professional
Signature: Dale Woodall	Date: <u>11/17/2022</u>
email: <u>dale.woodall@dvn.com</u>	Telephone: 575-748-1838
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Page 6

Oil Conservation Division

Incident ID	NRM2008733329
District RP	
Facility ID	
Application ID	

# Closure

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		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in	
Printed Name: Dale Woodall	Title: Env. Professional	
Signature: Dale Woodall	Date: <u>11/17/2022</u>	
email: <u>dale.woodall@dvn.com</u>	Telephone: 575-748-1838	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	159658
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created Condition Condition By Date bhall 1/6/2023 None

CONDITIONS

Action 159658