REVIEWEDBy Olivia Yu at 7:50 am, Oct 22, 2018

Devon Energy Production Co LP Falcon 32 State 1 Battery

Closure

Unit Letter F, Section 32, T23S, R32E Lea County, New Mexico

> 30-025-33001 1RP-4947

September 28, 2018



Prepared for:

Devon Energy Production Co., LP 6488 Seven Rivers Hwy Artesia, New Mexico 88211

By:

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

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I. Company Contacts

Representative	Company	Telephone	E-mail
Mike Shoemaker	Devon Energy Prod.	575-746-5566	Mike.Shoemaker@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment on the Falcon 32 State 1 Battery, concerning a 31 bbls. release of oil and produced water. This site is situated in Lea County, Section 32, Township 23S, and Range 32E.

According to the C-141: Approximately thirty one (31) BBLS of produced water and six (6) BBLS of oil was released into dirt containment. Pressure was lost on the inlet separator and liquid flowed into the vent line causing the open top vent tank to overflow into the dirt SPCC containment. The wells going to the battery were shut in to prevent any further release. A vacuum truck was dispatched and recovered approximately thirty (30) BBLS produced water and five (5) BBLS oil. This is a CTB located on the Falcon 32 State 1 Battery which is a P&A well. Safety & Environmental Solutions was contacted for remediation.

III. Surface and Ground Water

The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 584' bgs.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:									
(Vertical distance from contaminants to	Less than 50 feet	20 points							
seasonal high water elevation of	50 feet to 99 feet	10 points							
groundwater)	>100 feet	0 points	X						
Wellhead Protection Area:									
(Less than 200 feet from a private domestic	Yes	20 points							
water source; or less than 1000 feet from all	No 0 points		X						
other water sources)		-							
Distance to Surface Water:									
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points							
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points							
canals and ditches)	>1000 feet	0 points	X						
RANKING SCORE (TOTAL POINTS)			0						

V. Work Performed

On March 29, 2018, SESI personnel was onsite at the Devon Falcon 32 State 1 Battery for the site assessment and delineation. It was determined that the spill was contained inside the berm, and no mechanical equipment can be used. The site area was assessed to determine where the sample points were to be installed. Four auger holes were installed and field tested for Chlorides. The release area and sample points were mapped using the Juno 3B and site photos of the release area were taken. All soil samples were properly packaged, preserved and transported to Hall Environmental Laboratories of Albuquerque, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), BTEX, and Chlorides (Method 300). The results are recapped in the following table:

Soil S	Soil Sample Results: Hall Environmental Laboratories 4/10/2018								
SAMPLE ID	Benzene	Toluene	Ethyl	Total	Total	TPH	TPH	Chlorides	
			benzene	Xylenes	BTEX	GRO	DRO		
Sample #1	ND	ND	ND	ND	ND	ND	470	89	
Sample #2	ND	ND	ND	ND	ND	ND	17	140	
Sample #3	ND	ND	ND	ND	ND	13	400	120	
Sample #4	ND	ND	ND	ND	ND	ND	64	76	

Between July 30, 2018 and August 3, 2018, SESI personnel was onsite with SDR personnel at the Devon Falcon 32 State 1 to begin remediation of the release area. After the crew excavates approximately fifteen foot area, a soil sample was obtained from the bottom of the excavation and field tested for TPH and Chlorides. Throughout the excavation, soil samples were obtained on the North, South and West walls and field tested for TPH and Chlorides. Once excavation was complete, the SDR backhoe began hauling in back fill material, dumping it over the fence into the excavation while the crew spread it out. Spoils were hauled to Lea Land for disposal. The excavation area was mapped and site photos were taken. All soil samples were properly packaged, preserved and transported to Hall Environmental Laboratories of Albuquerque, NM by chain of custody, and analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), BTEX, and Chlorides (Method 300). The results are recapped in the following table:

Soil S	Soil Sample Results: Hall Environmental Laboratories 8/13/2018							
SAMPLE ID	Benzene	Toluene	Ethyl	Total	TPH	TPH	Chlorides	
			benzene	Xylenes	GRO	DRO		
SP-1 Bottom 1ft	ND	ND	ND	ND	ND	230	410	
SP-2 Bottom 1ft	ND	ND	ND	ND	ND	220	410	
SP-3 Bottom 1ft	ND	ND	ND	ND	ND	ND	190	
SP-4 Bottom 1ft	ND	ND	ND	ND	ND	15	190	
SP-5 North Wall	ND	ND	ND	ND	ND	ND	ND	
SP-6 West Wall	ND	ND	ND	ND	ND	ND	60	
SP-7 West Wall	ND	ND	ND	ND	ND	ND	ND	
SP-8 South Wall	ND	ND	ND	ND	ND	ND	65	
SP-9 East Wall	ND	ND	ND	ND	ND	ND	ND	
SP-10 North Wall	ND	ND	ND	ND	ND	ND	64	

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 600 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with similar material and returned to grade. Devon Energy Production respectfully submits this closure report for your consideration, and requests that no further action be required.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Appendix A – C-141

Appendix B – Groundwater

Appendix C – Analytical Results

Appendix D – Photo Documentation

Figure 1 Vicinity Map

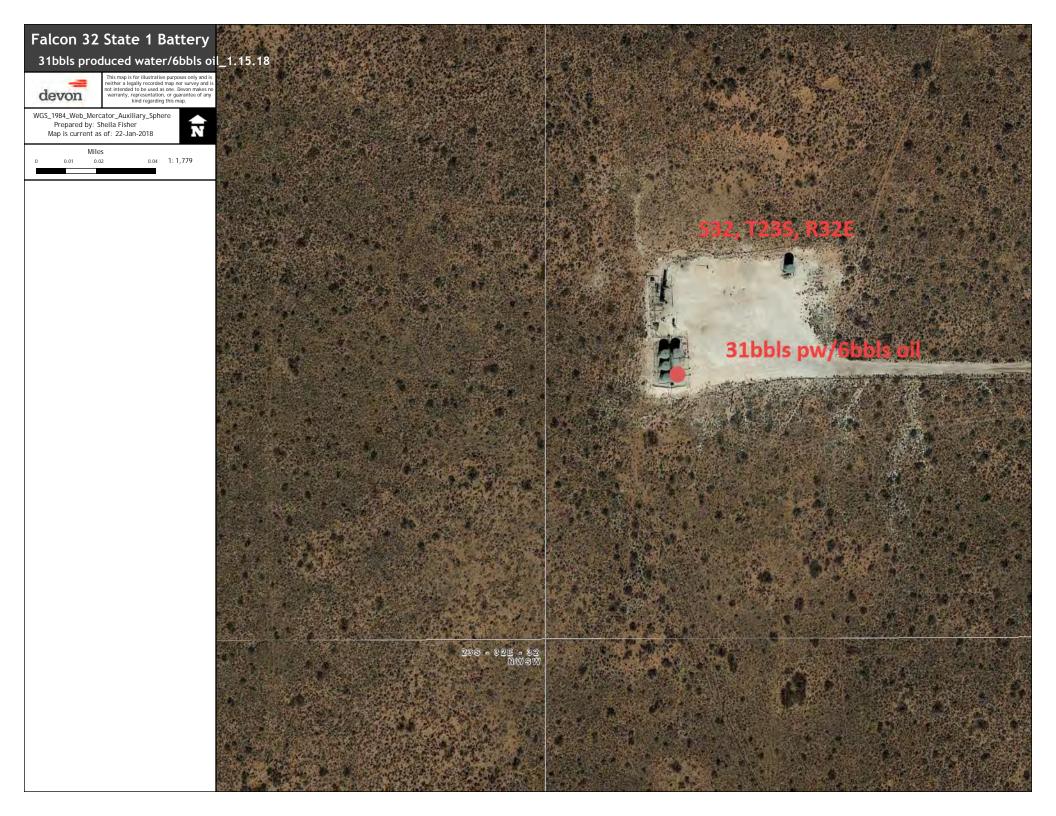


Figure 2 Site Plan



Appendix A C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised April 3, 2017

Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company Devon Energy Production Company Contact Wes Ryan, Production Foreman Address 6488 Seven Rivers Hwy Artesia, NM 88210 Telephone No. 575-390-5436 Facility Name Falcon 32 State 1 Battery Facility Type Oil API No. 30-025-33001 Surface Owner State Mineral Owner State LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Section Township Range County 32 **23S** 32E Lea Latitude_32.26221_ Longitude_-103.70023_ NAD83 NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Produced Water/Oil 31bbls produced water/6bbls oil 30bbls produced water/5bbls oil Source of Release Date and Hour of Occurrence Date and Hour of Discovery Open top vent tank January 15, 2018 @ 1:05 PM January 15, 2018 @ 1:05 PM MST MST Was Immediate Notice Given? If YES, To Whom? Olivia Yu, OCD Tammy Honea, SLO By Whom? Date and Hour Mike Shoemaker, EHS Professional January 16, 2018 @ 6:44 AM MST Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Lost pressure on the inlet separator and liquid flowed into vent line causing the open top vent tank to overflow into the dirt SPCC containment. The wells going to the battery were shut in to prevent any further release. Describe Area Affected and Cleanup Action Taken.* Approximately 31bbls produced water and 6bbls oil were released into dirt containment. A vacuum truck was dispatched and recovered approximately 30bbls produced water and 5bbls oil. This is a CTB located on the Falcon 32 State 1 pad which is a P&A well. A remediation contractor will be contacted to assist with delineation and remediation efforts. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Sheila Fisher Approved by Environmental Specialist: Printed Name: Sheila Fisher

Approval Date:

Phone: 575.748.1829

Conditions of Approval:

Expiration Date:

Attached

E-mail Address: Sheila.Fisher@dvn.com

Title: Field Admin Support

Date: 1/22/18

^{*} Attach Additional Sheets If Necessary

Appendix B Groundwater



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

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

(In feet)

		POD Sub-		0	0	0							V	Vater
POD Number	Code	basin	County	•	•	_	Sec	Tws	Rng	X	Y	DepthWellDepthW		
<u>C 02216</u>		CUB	LE	2	2	4	21	23S	32E	625035	3573261*	585	400	185
<u>C 02349</u>		CUB	ED		2	3	03	23S	32E	625678	3578004*	525		
C 03529 POD1		C	LE	2	4	3	29	23S	32E	622651	3571212 🌑	550		
C 03749 POD1		CUB	LE	3	4	4	07	23S	32E	616974	3575662 🌑	865	639	226
C 03851 POD1		CUB	LE	3	3	4	20	23S	32E	622880	3572660	1392	713	679

Average Depth to Water:

584 feet

Minimum Depth:

400 feet

Maximum Depth:

713 feet

Record Count: 5

PLSS Search:

Township: 23S Range: 32E

*UTM location was derived from PLSS - see Help

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

3/14/18 10:45 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C – Analytical Results



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

April 10, 2018

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

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

RE: Devon Falcon 32001 OrderNo.: 1804001

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/31/2018 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

y, Inc. Date Reported: 4/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
 Project: Devon Falcon 32001
 Collection Date: 3/29/2018

Lab ID: 1804001-001 **Matrix:** SOIL **Received Date:** 3/31/2018 12:45:00 PM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	89	30	mg/Kg	20	4/9/2018 1:40:09 PM	37490
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: AG
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Surr: BFB	121	70-130	%Rec	1	4/4/2018 2:04:54 PM	37372
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	1			Analys	t: TOM
Diesel Range Organics (DRO)	470	98	mg/Kg	10	4/4/2018 4:07:28 PM	37380
Motor Oil Range Organics (MRO)	560	490	mg/Kg	10	4/4/2018 4:07:28 PM	37380
Surr: DNOP	0	70-130	S %Rec	10	4/4/2018 4:07:28 PM	37380
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analys	t: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Benzene	ND	0.024	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Toluene	ND	0.049	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Ethylbenzene	ND	0.049	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Xylenes, Total	ND	0.097	mg/Kg	1	4/4/2018 2:04:54 PM	37372
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	4/4/2018 2:04:54 PM	37372
Surr: Toluene-d8	84.2	70-130	%Rec	1	4/4/2018 2:04:54 PM	37372

Qualifiers:	Qualifiers: * Value exceeds Maximum Contaminant Level.		В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	le Diluted Due to Matrix E Value above quar	
	H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit		J	Analyte detected below quantitation limits Page 1 of 9
			P	Sample pH Not In Range
PQL Practical Quanitative Limit S % Recovery outside of range due to dilution or matrix		Practical Quanitative Limit	RL	Reporting Detection Limit
		W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/10/2018

CLIENT: Safety & Environmental Solutions

Client Sample ID: Sample #2

Project: Devon Falcon 32001

Collection Date: 3/29/2018

Lab ID: 1804001-002 **Matrix:** SOIL **Received Date:** 3/31/2018 12:45:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	4/9/2018 1:52:33 PM	37490
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	: AG
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Surr: BFB	113	70-130	%Rec	1	4/4/2018 3:14:17 PM	37372
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	3			Analyst	: TOM
Diesel Range Organics (DRO)	17	7.6	mg/Kg	1	4/3/2018 10:50:38 PM	37380
Motor Oil Range Organics (MRO)	ND	38	mg/Kg	1	4/3/2018 10:50:38 PM	37380
Surr: DNOP	94.0	70-130	%Rec	1	4/3/2018 10:50:38 PM	37380
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Methyl tert-butyl ether (MTBE)	ND	0.050	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Benzene	ND	0.025	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Toluene	ND	0.050	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Ethylbenzene	ND	0.050	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Xylenes, Total	ND	0.10	mg/Kg	1	4/4/2018 3:14:17 PM	37372
Surr: 4-Bromofluorobenzene	114	70-130	%Rec	1	4/4/2018 3:14:17 PM	37372
Surr: Toluene-d8	77.7	70-130	%Rec	1	4/4/2018 3:14:17 PM	37372

Qualifiers:	lifiers: * Value exceeds Maximum Contaminant Level.		В	Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix	E Value above quantitation range		
	Н	Holding times for preparation or analysis exceeded	ded J Analyte detected below quantitation limits Page		
	ND	Not Detected at the Reporting Limit	P	Analyte detected below quantitation limits Page 2 of 9 Sample pH Not In Range	
	PQL	Practical Quanitative Limit	RL Reporting Detection Limit		
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Date Reported: 4/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Sample #3

Project: Devon Falcon 32001

Collection Date: 3/29/2018

Lab ID: 1804001-003 **Matrix:** SOIL **Received Date:** 3/31/2018 12:45:00 PM

Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	120	30	mg/Kg	20	4/9/2018 2:29:47 PM	37490
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: AG
Gasoline Range Organics (GRO)	13	4.9	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Surr: BFB	117	70-130	%Rec	1	4/4/2018 4:23:40 PM	37372
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	400	81	mg/Kg	10	4/4/2018 4:29:33 PM	37380
Motor Oil Range Organics (MRO)	430	410	mg/Kg	10	4/4/2018 4:29:33 PM	37380
Surr: DNOP	0	70-130	S %Rec	10	4/4/2018 4:29:33 PM	37380
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analys	t: AG
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Benzene	ND	0.024	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Toluene	ND	0.049	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Ethylbenzene	ND	0.049	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Xylenes, Total	ND	0.097	mg/Kg	1	4/4/2018 4:23:40 PM	37372
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	1	4/4/2018 4:23:40 PM	37372
Surr: Toluene-d8	82.4	70-130	%Rec	1	4/4/2018 4:23:40 PM	37372

Qualifiers	Qualifiers: * Value exceeds Maximum Contaminant Level.		R	Analyte detected in the associated Method Blank		
Quanners.	D Sample Diluted Due to Matrix		E	Value above quantitation range		
	H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limi					
		Not Detected at the Reporting Limit	· · · · · · · · · · · · · · · · · ·			
	PQL Practical Quanitative Limit RL Reporting Detection Limit					
	S	% Recovery outside of range due to dilution or matrix	W	W Sample container temperature is out of limit as specified		

Date Reported: 4/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Sample #4

Project: Devon Falcon 32001

Collection Date: 3/29/2018

Lab ID: 1804001-004 **Matrix:** SOIL **Received Date:** 3/31/2018 12:45:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	76	30	mg/Kg	20	4/9/2018 2:42:12 PM	37490
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analys	t: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Surr: BFB	112	70-130	%Rec	1	4/4/2018 5:10:00 PM	37372
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	64	10	mg/Kg	1	4/3/2018 11:34:48 PM	37380
Motor Oil Range Organics (MRO)	64	50	mg/Kg	1	4/3/2018 11:34:48 PM	37380
Surr: DNOP	99.6	70-130	%Rec	1	4/3/2018 11:34:48 PM	37380
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analys	t: AG
Methyl tert-butyl ether (MTBE)	ND	0.046	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Benzene	ND	0.023	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Toluene	ND	0.046	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Ethylbenzene	ND	0.046	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Xylenes, Total	ND	0.091	mg/Kg	1	4/4/2018 5:10:00 PM	37372
Surr: 4-Bromofluorobenzene	113	70-130	%Rec	1	4/4/2018 5:10:00 PM	37372
Surr: Toluene-d8	83.0	70-130	%Rec	1	4/4/2018 5:10:00 PM	37372

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804001**

10-Apr-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32001

Sample ID MB-37490 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 37490 RunNo: 50408

Prep Date: 4/9/2018 Analysis Date: 4/9/2018 SeqNo: 1634764 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-37490 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 37490 RunNo: 50408

Prep Date: 4/9/2018 Analysis Date: 4/9/2018 SeqNo: 1634765 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.0 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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 Detection Limit

W Sample container temperature is out of limit as specified

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804001

10-Apr-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32001

Sample ID LCS-37380	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 37380	RunNo: 50268	
Prep Date: 4/2/2018	Analysis Date: 4/3/2018	SeqNo: 1628463	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	49 10 50.00	0 98.1 70	130
Surr: DNOP	4.2 5.000	84.7 70	130
Sample ID MB-37380	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 37380	RunNo: 50268	
Prep Date: 4/2/2018	Analysis Date: 4/3/2018	SeqNo: 1628464	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	98.6 70	130
Sample ID LCS-37405	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 37405	RunNo: 50301	
Prep Date: 4/3/2018	Analysis Date: 4/4/2018	SeqNo: 1630258	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5.000	82.1 70	130
Sample ID MB-37405	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 37405	RunNo: 50301	

SPK value SPK Ref Val %REC

10.00

Prep Date:

Surr: DNOP

Analyte

4/3/2018

Analysis Date: 4/4/2018

9.2

Qualifiers: Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit PQL

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

SeqNo: 1630259

92.5

LowLimit

70

Page 6 of 9

Units: %Rec

130

HighLimit

%RPD

RPDLimit

Qual

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804001**

10-Apr-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32001

Sample ID Ics-37372	Samp1	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batcl	n ID: 37	372	R	RunNo: 5	0274				
Prep Date: 4/2/2018	Analysis D	Date: 4/	3/2018	S	SeqNo: 1629196 Units					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.4	80	120			
Toluene	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.42		0.5000		83.1	70	130			
Sample ID Ics-37399	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batcl	n ID: 37 :	399	R	RunNo: 5	0305				
Prep Date: 4/3/2018	Analysis D	Date: 4/	4/2018	S	SeqNo: 1	630018	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.9	70	130			
Surr: Toluene-d8	0.43		0.5000		86.0	70	130			

Sample ID mb-37399	SampT	ype: M I	BLK	Test	tCode: El	PA Method	8260B: Vola	iles Short	List	
Client ID: PBS	Batch	ID: 37	399	R	RunNo: 5	0305				
Prep Date: 4/3/2018	Analysis D	ate: 4/	/4/2018	S	SeqNo: 1	630050	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.44		0.5000		87.5	70	130			

Sample ID 1804001-002ams	SampT	SampType: MS4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: Sample #2	Batch ID: 37372 RunNo: 50305									
Prep Date: 4/2/2018	Analysis D	Date: 4/	4/2018	S	SeqNo: 1	630620	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.89	0.048	0.9653	0	92.3	80	120			
Benzene	0.88	0.024	0.9653	0	90.8	80	120			
Toluene	0.94	0.048	0.9653	0.006082	96.6	80	120			
Ethylbenzene	1.0	0.048	0.9653	0	104	80	120			
Xylenes, Total	3.1	0.097	2.896	0.02727	105	80	120			
Surr: 4-Bromofluorobenzene	0.50		0.4826		103	70	130			
Surr: Toluene-d8	0.41		0.4826		85.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#:

1804001

10-Apr-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32001

Sample ID mb-37372

Sample ID 1804001-002amsd SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: Sample #2 Batch ID: 37372 RunNo: 50305										
Prep Date: 4/2/2018	Analysis D	oate: 4/4	4/2018	9	SeqNo: 1	630621	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.92	0.049	0.9823	0	93.6	80	120	3.18	0	
Benzene	0.88	0.025	0.9823	0	89.5	80	120	0.326	0	
Toluene	0.91	0.049	0.9823	0.006082	92.2	80	120	2.85	0	
Ethylbenzene	1.0	0.049	0.9823	0	105	80	120	2.22	0	
Xylenes, Total	3.1	0.098	2.947	0.02727	105	80	120	1.75	0	
Surr: 4-Bromofluorobenzene	0.49		0.4912		100	70	130	0	0	
Surr: Toluene-d8	0.41		0.4912		83.3	70	130	0	0	

TestCode: EPA Method 8260B: Volatiles Short List

· '											
Client ID: PBS	Batc	h ID: 37	372	F	RunNo: 5	0305					
Prep Date: 4/2/2018	Analysis [Date: 4/	/4/2018	5	SeqNo: 1	630651	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	ND	0.050									
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.57		0.5000		113	70	130				
Surr: Toluene-d8	0.42		0.5000		83.5	70	130				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804001**

Page 9 of 9

10-Apr-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32001

Project:	Devon Fa	lcon 3200	1								
Sample ID	lcs-37372	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	ID: 37	372	R	RunNo: 50274					
Prep Date:	4/2/2018	Analysis D	ate: 4/	3/2018	S	SeqNo: 1	629197	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	ge Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB		500		500.0		100	70	130			
Sample ID	lcs-37399	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	ID: 37	399	R	RunNo: 5	0305				
Prep Date:	4/3/2018	Analysis Da	ate: 4/	4/2018	S	SeqNo: 1	630013	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		510		500.0		103	70	130			
Sample ID	mb-37399	SampT	ype: M E	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	ID: 37	399	R	RunNo: 5 0	0305				
Prep Date:	4/3/2018	Analysis Da	ate: 4/	4/2018	S	SeqNo: 1	630047	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		570		500.0	Of It its var	114	70	130	70111 2	THE DELITING	Quai
Sample ID	1804001-001ams	SampT	vne. Me	<u> </u>	Tas	tCode: FI	PA Method	8015D Mod:	Gasolina	Pange	
·	Sample #1		ID: 37			RunNo: 5 0		oo isb woo.	Gasonne	ivarige	
	4/2/2018	Analysis Date				SegNo: 1		Units: mg/l	(a		
	4/2/2010	•				•		_	_	DDD1: ''	0 1
Analyte	ge Organics (GRO)	Result 31	PQL 4.8	24.04	SPK Ref Val 2.996	%REC 115	LowLimit 64.7	HighLimit 142	%RPD	RPDLimit	Qual
Surr: BFB	je Organies (Orto)	520	4.0	480.8	2.550	109	70	130			
0 1 10	1001001 001						24.84.4				
	1804001-001amsd		′'					8015D Mod:	Gasoline	Range	
	Sample #1		ID: 37		-	RunNo: 5		United the			
Prep Date:	4/2/2018	Analysis Da				SeqNo: 1	630541	Units: mg/l	\ g		
Analyte	(0.00)	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	ge Organics (GRO)	33 550	4.9	24.39 487.8	2.996	124 112	64.7 70	142 130	7.98 0	20 0	
Juli. Di D		330		407.0		112	70	130		0	
Sample ID	mb-37372	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	ID: 37	372	R	RunNo: 5	0305				
Prep Date:	4/2/2018	Analysis Da	ate: 4/	4/2018	S	SeqNo: 1	630579	Units: mg/l	K g		
					ODK D-()/-1		Land to te	I limb I incit	0/ DDD		0 1
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	PQL 5.0		SPK Ret Val				%RPD	RPDLimit	Qual
,	ge Organics (GRO)			SPK value 500.0	SPK Ref Val	%REC 112	70	130	%RPD	RPDLIMIT	Qual

Qualifiers:

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Safety Env Solutions	Work Order Numb	per: 1804001		RcptNo:	1
Received By: Dennis Suazo	3/31/2018 12:45:00	PM	Danign		
Completed By: Isaiah Ortiz	4/2/2018 7:27:23 AI	М	IO	_	
Reviewed By: SPEC 04/02/18					
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the samples	97	Yes 🔽	No 🗌	NA 📙	
4. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗔	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test	(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	erly preserved?	Yes 🗹	No 🗆		
8. Was preservative added to bottles?		Yes 🗌	No 🔽	NA 🗆	
9. VOA vials have zero headspace?		Yes	No 🗌	No VOA Vials 🗹	
10. Were any sample containers received brol	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 g/	>12 unless noted)
12. Are matrices correctly identified on Chain of	of Custody?	Yes 🗹	No 🗆	Adjusted2	
13. Is it clear what analyses were requested?		Yes 🔽	No 🗌		
14. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by:	
(If no, notify customer for authorization.) Special Handling (if applicable)				ENH	14/2/18
15. Was client notified of all discrepancies wit	h this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	,	Phone Fax	☐ In Person	
Regarding:			mono 🗀 rax		
Client Instructions:	and the same of th	ele la discine di soldonata e consumunto estrutanzo.	<u></u>	<u> </u>	
16. Additional remarks:					
17. Cooler Information	Coolinton Louisi	C1 D-4- 1	o:		
	Seal Intact Seal No es	Seal Date	Signed By		
U			1		



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

August 13, 2018

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

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

RE: Devon Falcon 32 Soil Battery OrderNo.: 1808182

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 8/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/13/2018

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

 Project:
 Devon Falcon 32 Soil Battery
 Collection Date: 7/30/2018 11:00:00 AM

 Lab ID:
 1808182-001
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	410	30	mg/Kg	20	8/7/2018 7:19:15 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2018 3:44:26 PM	39589
Surr: BFB	115	70-130	%Rec	1	8/6/2018 3:44:26 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	230	10	mg/Kg	1	8/7/2018 5:46:43 PM	39604
Motor Oil Range Organics (MRO)	190	50	mg/Kg	1	8/7/2018 5:46:43 PM	39604
Surr: DNOP	98.1	50.6-138	%Rec	1	8/7/2018 5:46:43 PM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.023	mg/Kg	1	8/6/2018 3:44:26 PM	39589
Toluene	ND	0.046	mg/Kg	1	8/6/2018 3:44:26 PM	39589
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2018 3:44:26 PM	39589
Xylenes, Total	ND	0.092	mg/Kg	1	8/6/2018 3:44:26 PM	39589
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	8/6/2018 3:44:26 PM	39589
Surr: Toluene-d8	96.8	70-130	%Rec	1	8/6/2018 3:44:26 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 8/13/2018

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

 Project:
 Devon Falcon 32 Soil Battery
 Collection Date: 7/30/2018 12:30:00 PM

 Lab ID:
 1808182-002
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	410	30	mg/Kg	20	8/7/2018 8:21:20 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2018 4:07:43 PM	39589
Surr: BFB	111	70-130	%Rec	1	8/6/2018 4:07:43 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	220	9.8	mg/Kg	1	8/7/2018 7:15:33 PM	39604
Motor Oil Range Organics (MRO)	170	49	mg/Kg	1	8/7/2018 7:15:33 PM	39604
Surr: DNOP	101	50.6-138	%Rec	1	8/7/2018 7:15:33 PM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.023	mg/Kg	1	8/6/2018 4:07:43 PM	39589
Toluene	ND	0.046	mg/Kg	1	8/6/2018 4:07:43 PM	39589
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2018 4:07:43 PM	39589
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2018 4:07:43 PM	39589
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	8/6/2018 4:07:43 PM	39589
Surr: Toluene-d8	97.8	70-130	%Rec	1	8/6/2018 4:07:43 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 8/13/2018

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-3 Bottom 1 Ft

Project: Devon Falcon 32 Soil Battery

Collection Date: 7/31/2018 1:20:00 PM

Lab ID: 1808182-003 **Matrix:** SOIL **Received Date:** 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	30	mg/Kg	20	8/7/2018 8:33:44 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2018 4:31:01 PM	39589
Surr: BFB	111	70-130	%Rec	1	8/6/2018 4:31:01 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/7/2018 8:44:12 PM	39604
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/7/2018 8:44:12 PM	39604
Surr: DNOP	99.6	50.6-138	%Rec	1	8/7/2018 8:44:12 PM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.023	mg/Kg	1	8/6/2018 4:31:01 PM	39589
Toluene	ND	0.047	mg/Kg	1	8/6/2018 4:31:01 PM	39589
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2018 4:31:01 PM	39589
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2018 4:31:01 PM	39589
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	8/6/2018 4:31:01 PM	39589
Surr: Toluene-d8	97.4	70-130	%Rec	1	8/6/2018 4:31:01 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 8/13/2018

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-4 Bottom 1 Ft

Project: Devon Falcon 32 Soil Battery

Collection Date: 7/31/2018 1:50:00 PM

Lab ID: 1808182-004 **Matrix:** SOIL **Received Date:** 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	190	30	mg/Kg	20	8/7/2018 8:46:09 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2018 4:54:28 PM	39589
Surr: BFB	114	70-130	%Rec	1	8/6/2018 4:54:28 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	15	9.8	mg/Kg	1	8/7/2018 9:50:42 PM	39604
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/7/2018 9:50:42 PM	39604
Surr: DNOP	91.3	50.6-138	%Rec	1	8/7/2018 9:50:42 PM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.024	mg/Kg	1	8/6/2018 4:54:28 PM	39589
Toluene	ND	0.047	mg/Kg	1	8/6/2018 4:54:28 PM	39589
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2018 4:54:28 PM	39589
Xylenes, Total	ND	0.094	mg/Kg	1	8/6/2018 4:54:28 PM	39589
Surr: 4-Bromofluorobenzene	128	70-130	%Rec	1	8/6/2018 4:54:28 PM	39589
Surr: Toluene-d8	96.0	70-130	%Rec	1	8/6/2018 4:54:28 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1808182

Date Reported: 8/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-5 North Wall

Project: Devon Falcon 32 Soil Battery
 Collection Date: 7/31/2018 9:30:00 AM

 Lab ID: 1808182-005
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	8/7/2018 8:58:33 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2018 5:17:48 PM	39589
Surr: BFB	109	70-130	%Rec	1	8/6/2018 5:17:48 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/7/2018 10:57:19 PM	39604
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/7/2018 10:57:19 PM	39604
Surr: DNOP	114	50.6-138	%Rec	1	8/7/2018 10:57:19 PM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.024	mg/Kg	1	8/6/2018 5:17:48 PM	39589
Toluene	ND	0.048	mg/Kg	1	8/6/2018 5:17:48 PM	39589
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2018 5:17:48 PM	39589
Xylenes, Total	ND	0.095	mg/Kg	1	8/6/2018 5:17:48 PM	39589
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	8/6/2018 5:17:48 PM	39589
Surr: Toluene-d8	97.9	70-130	%Rec	1	8/6/2018 5:17:48 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Date Reported: 8/13/2018

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

Project: Devon Falcon 32 Soil Battery
 Collection Date: 7/31/2018 9:55:00 AM

 Lab ID: 1808182-006
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	60	30	mg/Kg	20	8/7/2018 9:10:58 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2018 5:41:06 PM	39589
Surr: BFB	109	70-130	%Rec	1	8/6/2018 5:41:06 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2018 12:03:37 AM	39604
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 12:03:37 AM	39604
Surr: DNOP	94.0	50.6-138	%Rec	1	8/8/2018 12:03:37 AM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.023	mg/Kg	1	8/6/2018 5:41:06 PM	39589
Toluene	ND	0.046	mg/Kg	1	8/6/2018 5:41:06 PM	39589
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2018 5:41:06 PM	39589
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2018 5:41:06 PM	39589
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	8/6/2018 5:41:06 PM	39589
Surr: Toluene-d8	93.4	70-130	%Rec	1	8/6/2018 5:41:06 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1808182**Date Reported: **8/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-7 West Wall

 Project:
 Devon Falcon 32 Soil Battery
 Collection Date: 7/31/2018 10:10:00 AM

 Lab ID:
 1808182-007
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	8/7/2018 9:23:22 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2018 6:04:23 PM	39589
Surr: BFB	112	70-130	%Rec	1	8/6/2018 6:04:23 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2018 1:10:16 AM	39604
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 1:10:16 AM	39604
Surr: DNOP	111	50.6-138	%Rec	1	8/8/2018 1:10:16 AM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.024	mg/Kg	1	8/6/2018 6:04:23 PM	39589
Toluene	ND	0.048	mg/Kg	1	8/6/2018 6:04:23 PM	39589
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2018 6:04:23 PM	39589
Xylenes, Total	ND	0.096	mg/Kg	1	8/6/2018 6:04:23 PM	39589
Surr: 4-Bromofluorobenzene	125	70-130	%Rec	1	8/6/2018 6:04:23 PM	39589
Surr: Toluene-d8	99.8	70-130	%Rec	1	8/6/2018 6:04:23 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1808182**

Date Reported: 8/13/2018

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Devon Falcon 32 Soil Battery
 Collection Date: 7/31/2018 11:25:00 AM

 Lab ID:
 1808182-008
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	65	30		mg/Kg	20	8/7/2018 9:35:46 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/6/2018 9:11:17 PM	39589
Surr: BFB	117	70-130		%Rec	1	8/6/2018 9:11:17 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/8/2018 2:16:52 AM	39604
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2018 2:16:52 AM	39604
Surr: DNOP	96.7	50.6-138		%Rec	1	8/8/2018 2:16:52 AM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: AG
Benzene	ND	0.023		mg/Kg	1	8/6/2018 9:11:17 PM	39589
Toluene	ND	0.046		mg/Kg	1	8/6/2018 9:11:17 PM	39589
Ethylbenzene	ND	0.046		mg/Kg	1	8/6/2018 9:11:17 PM	39589
Xylenes, Total	ND	0.092		mg/Kg	1	8/6/2018 9:11:17 PM	39589
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/6/2018 9:11:17 PM	39589
Surr: Toluene-d8	96.2	70-130		%Rec	1	8/6/2018 9:11:17 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1808182**Date Reported: **8/13/2018**

Hall Environmental Analysis Laboratory, Inc.

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

Project: Devon Falcon 32 Soil Battery

Collection Date: 7/31/2018 12:20:00 PM

Lab ID: 1808182-009 **Matrix:** SOIL **Received Date:** 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	8/7/2018 9:48:10 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2018 9:34:32 PM	39589
Surr: BFB	112	70-130	%Rec	1	8/6/2018 9:34:32 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/8/2018 3:23:42 AM	39604
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/8/2018 3:23:42 AM	39604
Surr: DNOP	132	50.6-138	%Rec	1	8/8/2018 3:23:42 AM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
Benzene	ND	0.024	mg/Kg	1	8/6/2018 9:34:32 PM	39589
Toluene	ND	0.048	mg/Kg	1	8/6/2018 9:34:32 PM	39589
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2018 9:34:32 PM	39589
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2018 9:34:32 PM	39589
Surr: 4-Bromofluorobenzene	126	70-130	%Rec	1	8/6/2018 9:34:32 PM	39589
Surr: Toluene-d8	100	70-130	%Rec	1	8/6/2018 9:34:32 PM	39589

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/13/2018

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-10 North Wall

Project: Devon Falcon 32 Soil Battery
 Collection Date: 7/31/2018 12:45:00 PM

 Lab ID: 1808182-010
 Matrix: SOIL
 Received Date: 8/3/2018 8:35:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	64	30	mg/Kg	20	8/7/2018 10:25:23 PM	39649
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: AG
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2018 9:57:47 PM	39589
Surr: BFB	113	70-130	%Rec	1	8/6/2018 9:57:47 PM	39589
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2018 4:29:56 AM	39604
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2018 4:29:56 AM	39604
Surr: DNOP	92.7	50.6-138	%Rec	1	8/8/2018 4:29:56 AM	39604
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: AG
Benzene	ND	0.024	mg/Kg	1	8/6/2018 9:57:47 PM	39589
Toluene	ND	0.048	mg/Kg	1	8/6/2018 9:57:47 PM	39589
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2018 9:57:47 PM	39589
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2018 9:57:47 PM	39589
Surr: 4-Bromofluorobenzene	127	70-130	%Rec	1	8/6/2018 9:57:47 PM	39589
Surr: Toluene-d8	95.2	70-130	%Rec	1	8/6/2018 9:57:47 PM	39589

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 14
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808182

13-Aug-18

Client: Safety & Environmental Solutions **Project:** Devon Falcon 32 Soil Battery

Sample ID MB-39649 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 39649 RunNo: 53285

Prep Date: 8/7/2018 Analysis Date: 8/7/2018 SeqNo: 1754280 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-39649 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 39649 RunNo: 53285

Prep Date: 8/7/2018 Analysis Date: 8/7/2018 SeqNo: 1754281 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.4 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % 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
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1808182

13-Aug-18

Client: Safety & Environmental Solutions **Project:** Devon Falcon 32 Soil Battery

Sample ID MB-39604 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics **PBS** Client ID: Batch ID: 39604 RunNo: 53261 8/6/2018 SeqNo: 1753037 Prep Date: Analysis Date: 8/7/2018 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 8.7 10.00 87.2 50.6 138

Sample ID LCS-39604	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: LCSS	Batch	n ID: 39	604	F	RunNo: 5	3261		J	J						
Prep Date: 8/6/2018	Analysis D	Date: 8/	7/2018	S	SeqNo: 1	753038	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	86.6	70	130								
Surr: DNOP	4.2		5.000		84.0	50.6	138								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η 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
- В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analyte detected in the associated Method Blank

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1808182**

13-Aug-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32 Soil Battery

Sample ID Ics-39589 Client ID: BatchQC	·	ype: LC		TestCode: EPA Method 8260B: Volatiles Short List RunNo: 53243										
Prep Date: 8/3/2018	Analysis Date: 8/6/2018			\$	SeqNo: 1	752198	Units: mg/k							
Analyte	Result	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit %RPI		RPDLimit	Qual				
Benzene	0.93	0.025	1.000	0	92.8	80	120							
Toluene	0.95	0.050	1.000	0	95.5	80	120							
Ethylbenzene	1.0	0.050	1.000	0	101	80	120							
Xylenes, Total	3.0	0.10	3.000	0	100	80	120							
Surr: 4-Bromofluorobenzene	0.56		0.5000		111	70	130							
Surr: Toluene-d8	0.45		0.5000		89.4	70	130							

Sample ID mb-39589	Samp	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Batch ID: 39589			R	RunNo: 5									
Prep Date: 8/3/2018	Analysis Date: 8/6/2018		6/2018	S	SeqNo: 1	752199	Units: mg/K							
Analyte	Result	Result PQL SPK value		SPK Ref Val	I %REC LowLimit		HighLimit %RPD		RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.63	0.63 0.5000			125 70									
Surr: Toluene-d8	0.47		0.5000		94.3 70									

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 Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1808182**

13-Aug-18

Client: Safety & Environmental Solutions

Project: Devon Falcon 32 Soil Battery

Sample ID Ics-39589 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range LCSS Client ID: Batch ID: 39589 RunNo: 53243 Prep Date: 8/3/2018 Analysis Date: 8/6/2018 SeqNo: 1752062 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Gasoline Range Organics (GRO)
 27
 5.0
 25.00
 0
 110
 70
 130

 Surr: BFB
 530
 500.0
 106
 70
 130

Sample ID mb-39589 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 39589 RunNo: 53243

Prep Date: **8/3/2018** Analysis Date: **8/6/2018** SeqNo: **1752063** Units: **mg/Kg**

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 560 500.0 112 70 130

Qualifiers:

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

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

Sample Log-In Check List

Safety Env Solutions Client Name: Work Order Number: 1808182 RcptNo: 1 Received By: 8/3/2018 8:35:00 AM Isaiah Ortiz Completed By: Erin Melendrez 8/3/2018 9:28:26 AM 08/03/18 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present How was the sample delivered? Courier <u>Log In</u> NA 🗌 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 NA 🗆 No 🗆 Yes 🔽 Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗀 7. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 8. Was preservative added to bottles? Yes No 🗹 NA 🗌 9. VOA vials have zero headspace? No 🗌 No VOA Vials Yes No 🔽 10. Were any sample containers received broken? Yes # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes 🛂 No (Note discrepancies on chain of custody) Adjusted? No ... 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 Yes 🗸 No 🗀 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? Yes 🗹 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 NA 🗹 No 🗔 Person Notified: Date: By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ in Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By 2.3 Good Yes

YSIS LABORATORY environmental.com Albuquerque, NM 87109 Fax 505-345-4107		505-345-4107 Request			(008)-	V-ime2) 0728										>			~	the constrained report		
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Chain-of-Custody Record	Self For Constitution	703 G Chara	200	575-397-0510	* See below		□ Other		ž	S 5/2 (Battern (F)	S SP. Z. Rottom (Fr		5 SP4 Bitm (A)	S SAS MADIUM	5 SP-6 WORTWELL	S SP WESTERING	S SPB Sugar Will	5 SPG GASTWILL	S SULLO Northwall		Keinfquished by:	Relinquished by	
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Client:		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package: ☐ Standard	Accreditation	□ EDD (Type	Date	7/30	1/30	1/3)	1/31	1/31 1	1/3/0	12/21	1/3)	231	18/2		Sy Care:	7	31

Appendix D Site Photographs

Devon Falcon 32 State 1 Battery Photos-3-28-2018







































Devon Falcon 32 State 1 Battery

Photos 7-10-2018





















































