DEVON ENERGY Thistle Unit #44H

Work Plan

U/L N, Section 33, T23S, R33E Lea County, New Mexico

NAB1905153070 AND NRM2003159278

June 12, 2020



Prepared for:

Devon Energy 6488 Seven Rivers Hwy Artesia, NM 88210

By:

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

Company Contacts

Representative	Company	Telephone	E-mail
Tom Bynum	Devon Energy	580-748-1613	Tom.Bynum@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess two spills at the Thistle Unit #44H location. This site is situated in U/L N, Section 33, Township 23S and Range 33E, in Lea County New Mexico. We are addressing two separate leaks in this plan which will be remediated upon plan approval.

According to the C-141 for incident NAB1905153070, the dump was stuck open causing the free water knockout to pop off which resulted in a 4 bbl release of oil and a 18.38 bbls release of produced water. A vacuum truck was dispatched to recover all free-standing fluids.

Incident NRM2003159278 was caused by a line leak in the heater treater water dump line releasing 32.9 bbls of produced water. A vacuum truck was dispatched to recover all free-standing fluids.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. Depth to groundwater determination was not successfully established based on the guidelines required by NMOCD; therefore, Devon will remediate these spills according to the most stringent criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

Both leaks have been fully delineated both vertically and horizontally at the request of NMOCD in their 5/12/20 denial of the previously submitted workplan dated 3/10/2020. In this plan rejection, NMOCD requested additional requirements which included delineation establishing horizontal extent and vertical delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene. NMOCD also requested, "Devon investigate the area directly adjacent to the tank battery on the east side" due to visible staining. Due to the denial of the initial workplan and the requests made by NMOCD, SESI personnel returned to the Thistle #44 site to fulfill the requests made by NMOCD. Each spill, as well as the area of concern outlined by NMOCD, will be addressed separately in this report to avoid confusion.

OCD Area of Concern, Investigation

During the investigation of "the area directly adjacent to the tank battery on the east side", SESI personnel discovered that the area did not in fact have staining, but instead determined the dark color areas seen in Google Earth imaging is actually red sand that had either been placed in the area as backfill or had been tracked onto location by traffic. To ensure the area was indeed not contaminated, SESI personnel conducted spot sampling of the area by taking 5 samples (SPA-SPE). The sample placements can be seen in the Area of Concern map included in this report.

The samples were properly packaged and preserved and taken to Hall Environmental Laboratory for analyzation. The results of the labs are captured in the table below:

	Devon Energy Thistle Unit #44H, NMOCD Area of Concern Soil Sample Results: Hall Environmental Laboratories 5/14/20											
	Soil	Sample Re	sults: Hall Er	nvironment	tal Laborato	ries 5/14/2	0					
SAMPLE ID Chloride DRO MRO GRO Benzene Toluene Ethyl Total												
							benzene	Xylenes				
SP-A	220	ND	ND	ND	ND	ND	ND	ND				
SP-B	210	ND	ND	ND	ND	ND	ND	ND				
SP-C	230	15	63	ND	ND	ND	ND	ND				
SP-D	200	ND	ND	ND	ND	ND	ND	ND				
SP-E	230	14	60	ND	ND	ND	ND	ND				

OCD Area of Concern, Action Plan

Based on the results of the samples taken in this area, SESI does not feel any action is warranted in this area. Each sample met the most stringent criteria at the surface.

Release Area 1 (nAB1905153070; 1RP-5372), Investigation

Release area 1 was improperly identified in the initial workplan as part of the 2nd release area. Upon, further investigation of photos and narratives, SESI personnel learned that the February release was located just north of the November release and is outlined in the nAB1905153070 map included in this report. Therefore, on 5/14/20, SESI personnel tracked and mapped the February release and sampled the area to achieve both vertical and horizontal delineation. Nine samples were taken at the surface and 1 foot intervals until field testing indicated the samples to be clean. AH-1 through AH-4 were used to determine vertical extent and AH-5 through AH-10 were used to determine horizontal extent. An additional horizontal sample taken 4/24/20 was used to establish horizontal extent for the November release was used to help establish horizontal extent on the NE corner of this release. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing. The results of the analytical are captured in the summary table below:

	Devon Energy Thistle Unit #44H, Release Area 1, nAB1905153070, 1RP-5372 Vertical Extent Soil Sample Results: Hall Environmental Laboratories 5/14/20											
	1		· ·			ı	1	T-4-1				
SAMPLE ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes				
AH-1 @ Surface	ND	11000	5200	ND	ND	ND	ND	ND				
AH-1 @ 3urrace	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND				
								1				
An-1 @ 2	AH-1 @ 2'											
AH-2 @ Surface ND 11000 4500 220 ND 0.19 1.6 9.3												
AH-2 @ 3011ace	ND	16	ND	ND	ND	ND	ND	ND				
AH-2 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND				
ATT-Z @ Z	IND	IND	IND	IND	IND	IND	IND	ND				
AH-3 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
AH-3 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND				
AH-4 @ Surface	ND	9000	4300	ND	ND	ND	ND	ND				
AH-4 @ 1'	ND	17	ND	ND	ND	ND	ND	ND				
AH-4 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND				
		НОГ	RIZONTAL EX	CTENT SAM	PLE RESULT	S						
AH-5 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
AH-5 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND				
AH-6 @ Surface	270	ND	ND	ND	ND	ND	ND	ND				
AH-6 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND				
AH-7 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
AH-7 @ 1'	ND	13	ND	ND	ND	ND	ND	ND				
AH-8 @ Surface	270	ND	ND	ND	ND	ND	ND	ND				
AH-8 @ 1'	85	ND	ND	ND	ND	ND	ND	ND				
	1			1	1	1						
AH-9 @ Surface	ND	ND	ND	ND	ND	ND	ND	ND				
AH-9 @ 1'	ND	12	ND	ND	ND	ND	ND	ND				
	1				1	1						
AH-10 @ Surface	290	ND	ND	ND	ND	ND	ND	ND				
AH-10 @ 1'	ND	ND	ND	ND	ND	ND	ND	ND				

Release Area 1 (nAB1905153070; 1RP-5372), Action Plan

Based on the results above for vertical extent samples AH-1 through AH-4, SESI respectfully recommends the entire leak of release area 1 be remediated to a depth of one foot. The excavation area is outlined in the map of this release located in this report. Once this remediation plan is approved, Devon will perform the remediation and all removed soil will be disposed of in an OCD-approved landfill. Approximately 1,100 ft3 will be excavated from this release area. Devon will then conduct both bottom and sidewall confirmation sampling to ensure all contaminated materials have been removed to the most stringent criteria established by NMOCD. Upon receipt of lab results verifying all contaminants have been removed, Devon will backfill the site with uncontaminated soil. If it becomes apparent that facility equipment

and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

Release Area 2 (nRM2003159278), Investigation

Release area 2 is a spill dated 11/24/2019 that has now been fully delineated both vertically and horizontally by SESI personnel on behalf of Devon Energy. After tracking and mapping the release area, SESI personnel conducted initial sampling on 12/19/2019. Thirteen auger holes were obtained at the surface, properly packaged and preserved, and sent to Cardinal Labs for analyzation. When SESI received the results of the samples, it was observed that many of the samples were still hot at the surface and further testing would need to be conducted.

On January 17, 2020 SESI personnel returned to the Thistle #44 to conduct deeper sampling hoping to achieve vertical extent. Samples were obtained at 1 foot intervals until field testing revealed clean samples. The samples were properly packaged and preserved and sent to Cardinal Labs for testing. The results of both sampling events are captured in the table below:

			De	von Energy						
		Thistle Un	nit #44H, Rel	ease area 2	2, nRM200	3159278				
Soil Sample Results: Cardinal Laboratories 12/19/19 and (1/17/20)										
SAMPLE ID	Benzene	Toluene	Ethyl-	Total	Total	Chlorides	TPH	TPH	EXT	
			benzene	Xylenes	BTEX		GRO	DRO	DRO	
AH1 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	35600	<10.0	<10.0	<10.0	
(SP1 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	128	<10.0	<10.0	<10.0	
AH2 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	752	57	3110	572	
(SP2 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	1060	<10.0	<10.0	<10.0	
AH3 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	768	71.4	3730	687	
(SP3 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	1090	<10.0	<10.0	<10.0	
AH4 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	752	62.6	3270	566	
(TT-4 @ 2')	<0.050	<0.050	<0.050	<0.150	<0.300	528	<10.0	<10.0	<10.0	
AH5 @ Surface	<0.050	0.387	2.91	15.7	18.9	3240	521	8990	1480	
(TT-5 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	448	<10.0	<10.0	<10.0	
AH6 @ Surface	<0.050	0.269	2.29	11.5	14	3600	545	10200	1590	
(TT-6 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	608	<10.0	<10.0	<10.0	
AH7 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	21600	<10.0	<10.0	<10.0	
(TT-7 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	4720	<10.0	<10.0	<10.0	
AH8 @ Surface	<0.050	0.291	2.35	11.6	14.3	3080	563	10300	1670	
(TT-8 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	4720	<10.0	<10.0	<10.0	
AH9 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	16400	<10.0	<10.0	<10.0	
(TT-9 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	1410	<10.0	<10.0	<10.0	

AH10 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	14000	<10.0	<10.0	<10.0
(TT-10 @1')	<0.050	<0.050	<0.050	<0.150	<0.300	5040	<10.0	<10.0	<10.0
AH11 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	20000	<10.0	<10.0	<10.0
(TT-11 @1')	<0.050	<0.050	<0.050	<0.150	<0.300	1460	<10.0	<10.0	<10.0
AH12 @ Surface	<0.050	<0.050	<0.050	<0.150	<0.300	20800	<10.0	<10.0	<10.0
(TT-12 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	4640	<10.0	<10.0	<10.0
AH13 @ 1'	<0.050	<0.050	<0.050	<0.150	<0.300	3640	<10.0	<10.0	<10.0
(TT-13 @ 1')	<0.050	<0.050	<0.050	<0.150	<0.300	1100	<10.0	<10.0	<10.0
(TT-13 @ 2')	<0.050	<0.050	<0.050	<0.150	<0.300	80	<10.0	<10.0	<10.0

Upon completion of these two sampling events, SESI personnel along with Devon personnel believed full delineation had been achieved; therefore, a workplan was submitted to NMOCD on 03/10/2020. However, in May of 2020, NMOCD informed Devon and SESI that wells over 25 years old and wells with a distance greater than a half mile from the release site could no longer be used to determine groundwater depth. Furthermore, if groundwater depth could not be established, then the most stringent criteria must be met during the remediation approval process and closure requests. It was also learned that all leaks would need to have horizontal extent established. Therefore, SESI personnel returned to the November release area to obtain both vertical and horizontal delineation.

Since vertical extent had previously been successfully achieved at samples AH1, AH4, AH5, and AH13, additional deeper samples were only obtained at AH2, AH3, AH6, AH7, AH8, AH9, AH10, AH11, and AH12. These samples were preserved, packaged, and sent to Hall Labs. The results of this testing are captured in the table below:

Devon Energy Thistle Unit #44H, Release area 2, nRM2003159278 Soil Sample Results: Hall Environmental Laboratories 6/1/2020											
SAMPLE ID	Chloride	DRO	MRO	GRO	Benzene	Toluene	Ethyl benzene	Total Xylenes			
AH2/SP2 @ 2'	200	ND	ND	ND	ND	ND	ND	ND			
AH3/SP3 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND			
AH6/SP6 @ 2'	150	ND	ND	ND	ND	ND	ND	ND			
AH7,TT7 @ 2'	150	ND	ND	ND	ND	ND	ND	ND			
AH8/TT8 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND			
AH9/TT9 @ 2'	150	ND	ND	ND	ND	ND	ND	ND			
AH10/TT10 @ 2'	200	ND	ND	ND	ND	ND	ND	ND			
AH11/TT11 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND			
AH12/TT12 @ 2'	ND	ND	ND	ND	ND	ND	ND	ND			

In order to determine horizontal extent and fulfill the NMOCD request to do so, SESI personnel performed sampling on 4/24/20. Since chlorides were the only constituent of concern for this leak, horizonal samples were only tested for chlorides to reduce the very high costs associated with this release area during a time of economic difficulties. All constituents will be addressed

during confirmation sampling of the release area. The horizontal samples are denoted on the map with and H beside the sample ID. Eleven samples were obtained, properly preserved and packaged and sent to Hall Environmental labs for chloride testing. The results of the sample testing are captured in the table below:

Devon Energy								
Thistle Unit #44H, Release area 2,								
nRM2003159278								
HORIZONTAL Soil Sample Re								
Environmental Laboratories								
SAMPLE ID	Chloride							
AH14 @ Surface North	ND							
AH14 @ 1' North	ND							
AH15 @ Surface North	220							
AH 15 @ 1' North	ND							
AH16 @ Surface North	260							
AH16 @ 1' North	ND							
AH17 @ Surface North	61							
AH17 @ 1' North	180							
AH18 @ Surface South	ND							
AH18 @ 1' South	ND							
AH19 @ Surface South	440							
AH19 @ 1' South	180							
AH20 @ Surface South	440							
AH20 @ 1' South	180							
AH21 @ Surface South	60							
AH21 @ 1' South	180							
AH22 @ Surface West	440							
AH22 @ 1' West	ND							
AH23 @ Surface North	ND							
AH23 @ 1' North	190							
AH24 @ Surface BCKGRND	ND							
AH24 @ 1' BCKGRND	ND							

Release Area 2 (nRM2003159278), Action Plan

Based on the results of the sampling events and the requirement to meet the most stringent criteria set forth by NMOCD, SESI recommends feasible remediation of this release area to a depth of 2 feet in all areas except for the areas of AH1/SP1 and AH5/SP5. Those two areas will be feasibly excavated to a depth of 2 feet. Approximately 33,000 ft3 will be excavated and disposed of in a NMOCD-approved facility. Once the remediation plan is approved, Devon will remediate the site according the approved plan then obtain bottom and sidewall confirmation samples to confirm the most stringent criteria of 600 mg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene. After confirmation samples are confirmed to meet the most stringent closure criteria, Devon will backfill the site with clean soil. If it becomes apparent that facility equipment and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

SESI, on behalf of Devon respectfully submits this remediation plan and requests approval at your earliest convenience. Upon approval, remediation efforts will be conducted within 90 days.

Supplemental and Supporting Documentation

Evidence Document 1: Map of OCD Area of Concern denoting sample point locations

Evidence Document 2: Map of Release area 1, nAB1905153070 with vertical and

horizontal extent sample locations

Evidence Document 3: Map of Release area 2, nRM2003159278 with vertical and

horizontal extent sample locations

Evidence Document 4: NMOCD Oil and Gas Topo map detailing area water features

Evidence Document 5: BLM Cave Karst map showing location in low potential area

Evidence Document 6: FEMA demonstrating minimal flood hazards for this area

Evidence Document 7: Lab analysis for OCD area of concern, 5/14/20

Evidence Document 8: Lab analysis for Release area 1, 5/14/20

Evidence Document 9: Lab analysis for Release area 2, 12/19/19

Evidence Document 10: Lab analysis for Release area 2, 1/17/20

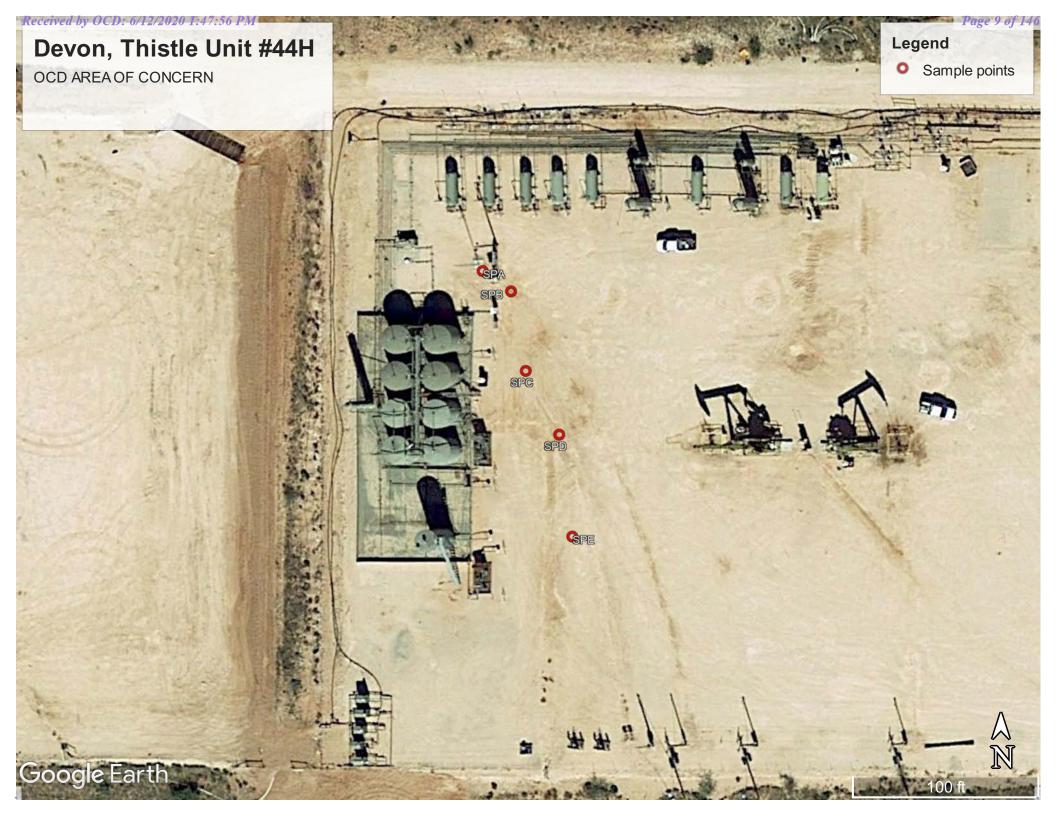
Evidence Document 11: Lab analysis for Release area 2. 6/1/20

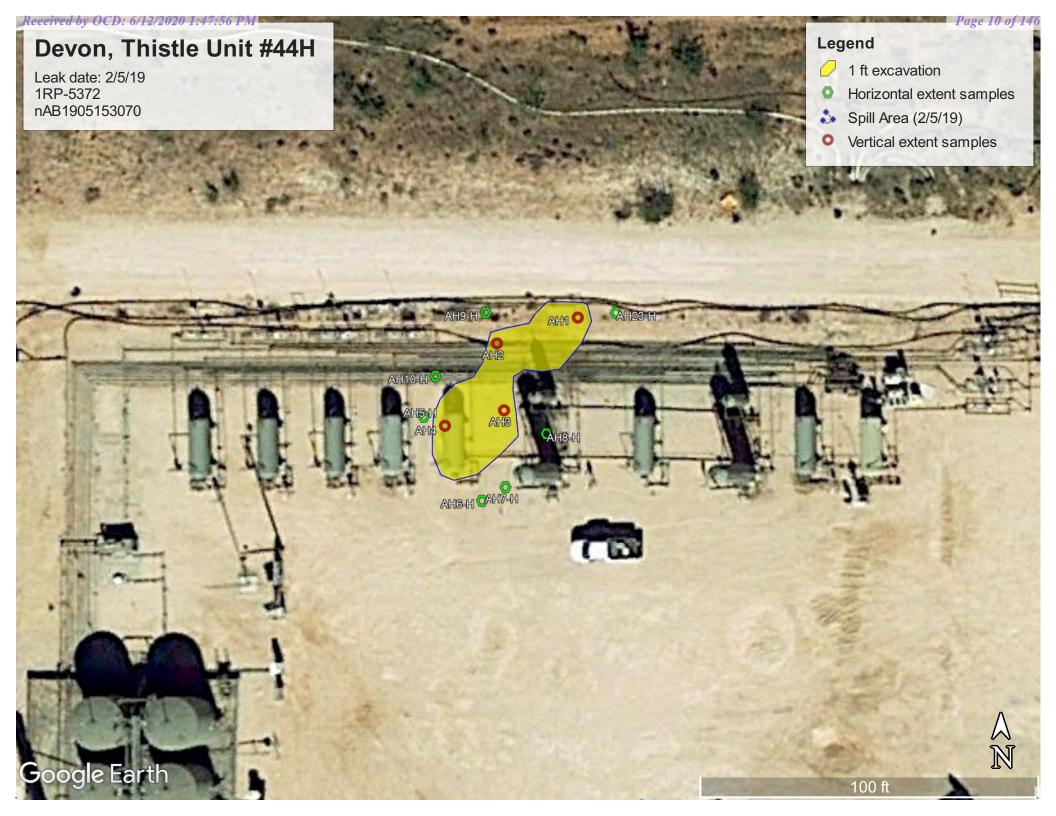
Evidence Document 12: Lab analysis for Release area 2, 4/24/20

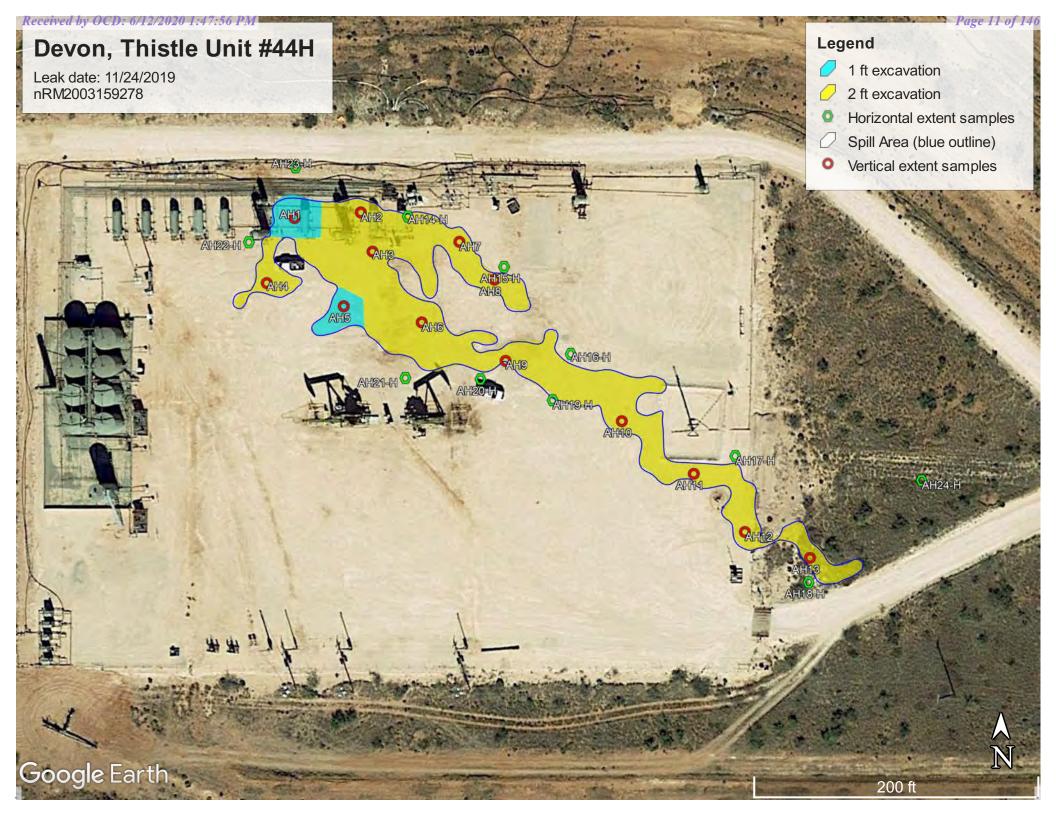
Evidence Document 13: Workplan Denial email from NMOCD with requests for

supplemental evidence

Evidence Document 13: C-141, pgs. 3-5 for nAB1905153070 AND nRM2003153278

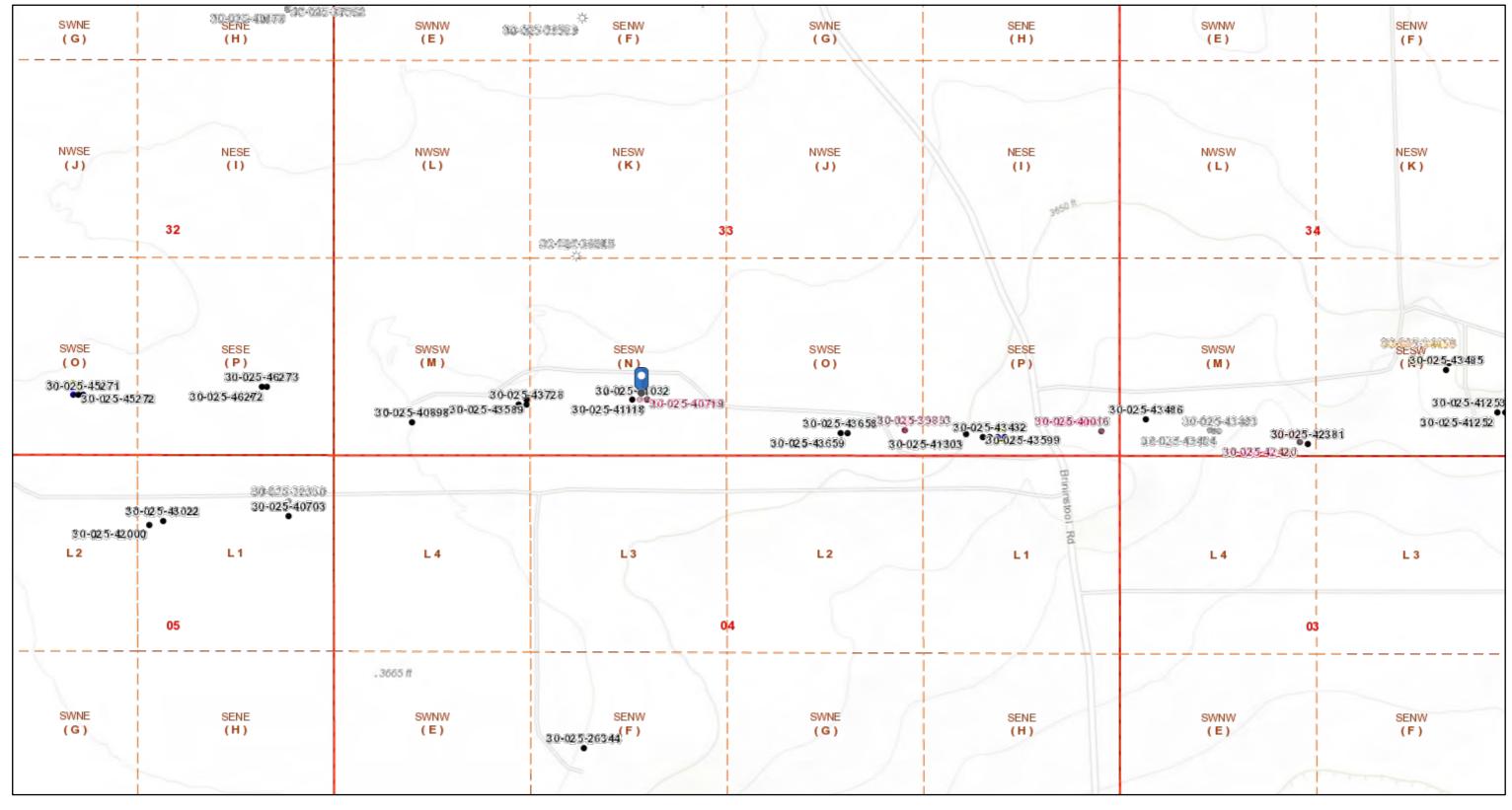




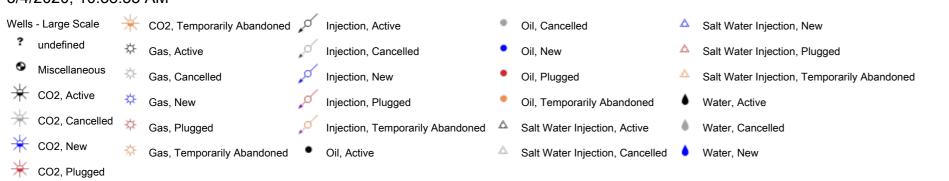


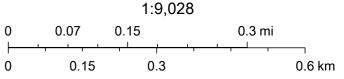
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Devon, Thistle Unit #44H









Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

Received by OCD: 6/12/2020 1:47:56 PM

Devon, Thistle Unit #44H

Lea County, NM NAB1905153070 AND NRM2003159278



Legend



LOW POTENTIAL



SPILL AREA (YELLOW)

Page 13 of 146

Co Rd 2-A

× N

National Flood Hazard Layer FIRMette

250

500

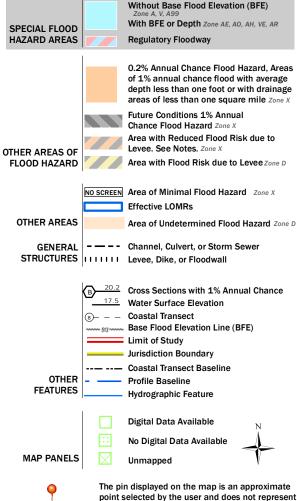
1,000

1,500



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/9/2020 at 5:28:05 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2,000



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

May 22, 2020

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

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

RE: Devon Thistle 44H OrderNo.: 2005735

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/16/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 2005735

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005735-001

Client Sample ID: SP-A

Collection Date: 5/14/2020 1:50:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	220	60	mg/Kg	20	5/21/2020 10:34:24 PM	52637
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.1	mg/Kg	1	5/19/2020 6:49:31 PM	52528
Motor Oil Range Organics (MRO)	ND	40	mg/Kg	1	5/19/2020 6:49:31 PM	52528
Surr: DNOP	94.0	55.1-146	%Rec	1	5/19/2020 6:49:31 PM	52528
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/19/2020 10:54:55 PM	52514
Surr: BFB	85.5	66.6-105	%Rec	1	5/19/2020 10:54:55 PM	52514
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/19/2020 10:54:55 PM	52514
Toluene	ND	0.050	mg/Kg	1	5/19/2020 10:54:55 PM	52514
Ethylbenzene	ND	0.050	mg/Kg	1	5/19/2020 10:54:55 PM	52514
Xylenes, Total	ND	0.10	mg/Kg	1	5/19/2020 10:54:55 PM	52514
Surr: 4-Bromofluorobenzene	99.2	80-120	%Rec	1	5/19/2020 10:54:55 PM	52514

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

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

Page 1 of 10

Lab Order **2005735**

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005735-002

Client Sample ID: SP-B

Collection Date: 5/14/2020 2:10:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	210	60	mg/Kg	20	5/21/2020 11:11:24 PM	52637
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/19/2020 7:14:34 PM	52528
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/19/2020 7:14:34 PM	52528
Surr: DNOP	95.3	55.1-146	%Rec	1	5/19/2020 7:14:34 PM	52528
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 11:18:50 PM	52514
Surr: BFB	86.5	66.6-105	%Rec	1	5/19/2020 11:18:50 PM	52514
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/19/2020 11:18:50 PM	52514
Toluene	ND	0.049	mg/Kg	1	5/19/2020 11:18:50 PM	52514
Ethylbenzene	ND	0.049	mg/Kg	1	5/19/2020 11:18:50 PM	52514
Xylenes, Total	ND	0.098	mg/Kg	1	5/19/2020 11:18:50 PM	52514
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	5/19/2020 11:18:50 PM	52514

Matrix: SOIL

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

Qualifiers:

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

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

Page 2 of 10

Lab Order **2005735**

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005735-003

Matrix: SOIL

Collection Date: 5/14/2020 2:25:00 PM **Received Date:** 5/16/2020 8:00:00 AM

Client Sample ID: SP-C

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	230	60	mg/Kg	20	5/21/2020 11:23:45 PM	52637
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	15	8.5	mg/Kg	1	5/19/2020 7:39:15 PM	52528
Motor Oil Range Organics (MRO)	63	43	mg/Kg	1	5/19/2020 7:39:15 PM	52528
Surr: DNOP	136	55.1-146	%Rec	1	5/19/2020 7:39:15 PM	52528
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 11:42:48 PM	52514
Surr: BFB	85.8	66.6-105	%Rec	1	5/19/2020 11:42:48 PM	52514
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	5/19/2020 11:42:48 PM	52514
Toluene	ND	0.049	mg/Kg	1	5/19/2020 11:42:48 PM	52514
Ethylbenzene	ND	0.049	mg/Kg	1	5/19/2020 11:42:48 PM	52514
Xylenes, Total	ND	0.098	mg/Kg	1	5/19/2020 11:42:48 PM	52514
Surr: 4-Bromofluorobenzene	98.3	80-120	%Rec	1	5/19/2020 11:42:48 PM	52514

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 10

Lab Order 2005735

Date Reported: 5/22/2020

5/20/2020 12:06:32 AM 52514

5/20/2020 12:06:32 AM 52514

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005735-004

Xylenes, Total

Surr: 4-Bromofluorobenzene

Matrix: SOIL

Collection Date: 5/14/2020 2:30:00 PM **Received Date:** 5/16/2020 8:00:00 AM

Client Sample ID: SP-D

mg/Kg

%Rec

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 200 60 mg/Kg 20 5/21/2020 11:36:06 PM 52637 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.8 mg/Kg 5/19/2020 11:58:43 PM 52538 Motor Oil Range Organics (MRO) ND 5/19/2020 11:58:43 PM 52538 49 mg/Kg 1 Surr: DNOP 87.8 %Rec 5/19/2020 11:58:43 PM 52538 55.1-146 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 5/20/2020 12:06:32 AM 52514 Gasoline Range Organics (GRO) ND 5.0 mg/Kg Surr: BFB 83.5 66.6-105 %Rec 5/20/2020 12:06:32 AM 52514 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 5/20/2020 12:06:32 AM 52514 Benzene 0.025 mg/Kg Toluene ND 0.050 mg/Kg 5/20/2020 12:06:32 AM 52514 Ethylbenzene ND 0.050 mg/Kg 1 5/20/2020 12:06:32 AM 52514

ND

96.6

0.099

80-120

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

- 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 10

Lab Order 2005735

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005735-005

Client Sample ID: SP-E

Collection Date: 5/14/2020 2:50:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	230	60	mg/Kg	20	5/21/2020 11:48:27 PM	52637
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	14	9.8	mg/Kg	1	5/20/2020 12:47:30 AM	52538
Motor Oil Range Organics (MRO)	60	49	mg/Kg	1	5/20/2020 12:47:30 AM	52538
Surr: DNOP	112	55.1-146	%Rec	1	5/20/2020 12:47:30 AM	52538
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/20/2020 12:30:08 AM	52514
Surr: BFB	86.2	66.6-105	%Rec	1	5/20/2020 12:30:08 AM	52514
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	5/20/2020 12:30:08 AM	52514
Toluene	ND	0.049	mg/Kg	1	5/20/2020 12:30:08 AM	52514
Ethylbenzene	ND	0.049	mg/Kg	1	5/20/2020 12:30:08 AM	52514
Xylenes, Total	ND	0.099	mg/Kg	1	5/20/2020 12:30:08 AM	52514
Surr: 4-Bromofluorobenzene	97.9	80-120	%Rec	1	5/20/2020 12:30:08 AM	52514

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

- 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 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005735**

22-May-20

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Sample ID: MB-52637 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52637 RunNo: 69084

Prep Date: 5/21/2020 Analysis Date: 5/21/2020 SeqNo: 2392598 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52637 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52637 RunNo: 69084

Prep Date: 5/21/2020 Analysis Date: 5/21/2020 SeqNo: 2392599 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 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 6 of 10

Hall Environmental Analysis Laboratory, Inc.

22-May-20

2005735

WO#:

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Project: Devon	Thistle 44H								
Sample ID: MB-52538	SampType: MBL	_K	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 5253	38	R	tunNo: 68	994				
Prep Date: 5/18/2020	Analysis Date: 5/19	9/2020	S	SeqNo: 23	90222	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	11	10.00		110	55.1	146			
Sample ID: LCS-52538	SampType: LCS	}	Test	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 525 3	38	R	lunNo: 68	994				
Prep Date: 5/18/2020	Analysis Date: 5/19	9/2020	S	SeqNo: 23	90223	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53 10	50.00	0	105	70	130			
Surr: DNOP	5.0	5.000		99.0	55.1	146			
Sample ID: LCS-52528	SampType: LCS	i	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 5252	28	R	tunNo: 69	010				
Prep Date: 5/18/2020	Analysis Date: 5/19	9/2020	S	eqNo: 23	90294	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59 10	50.00	0	119	70	130			
Surr: DNOP	6.0	5.000		120	55.1	146			
Sample ID: MB-52528	SampType: MBL	_K	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 5252	28	R	unNo: 69	010				
Prep Date: 5/18/2020	Analysis Date: 5/19	9/2020	S	SeqNo: 23	90296	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	13	10.00		125	55.1	146			
Sample ID: MB-52569	SampType: MBL	_K	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 5256	69	R	tunNo: 69	027				
Prep Date: 5/19/2020	Analysis Date: 5/20	0/2020	S	SeqNo: 23	90565	Units: %Red	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

9.0

- 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

89.8

55.1

146

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

10.00

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

4.3

WO#: **2005735 22-May-20**

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Surr: DNOP

Sample ID: LCS-52569 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 52569 RunNo: 69027

Prep Date: 5/19/2020 Analysis Date: 5/20/2020 SeqNo: 2390897 Units: %Rec

5.000

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

55.1

146

85.0

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 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005735**

22-May-20

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Sample ID: mb-52514 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 52514 RunNo: 68996

Prep Date: 5/17/2020 Analysis Date: 5/19/2020 SeqNo: 2389750 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 880 1000 87.7 66.6 105

Sample ID: Ics-52514 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 52514 RunNo: 68996

970

Prep Date: 5/17/2020 Analysis Date: 5/19/2020 SeqNo: 2389751 Units: mg/Kg

1000

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** 80 Gasoline Range Organics (GRO) 23 5.0 25.00 0 91.1 120

96.7

66.6

105

Qualifiers:

Surr: BFB

- 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 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005735**

22-May-20

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Sample ID: mb-52514 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 52514 RunNo: 68996 Prep Date: 5/17/2020 Analysis Date: 5/19/2020 SeqNo: 2389795 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Benzene ND 0.025 ND 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 101
 80
 120

Sample ID: LCS-52514	Sampl	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	h ID: 52	514	F	RunNo: 6	8996				
Prep Date: 5/17/2020	Analysis Date: 5/19/2020		ate: 5/19/2020 SeqNo: 2389796			SeqNo: 2389796				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	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

Page 10 of 10

ABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Safety Env Solutions Work Order Number: 2005735 RcptNo: 1 Leah Baca Received By: 5/16/2020 8:00:00 AM Completed By: Leah Baca 5/16/2020 8:36:32 AM 5/14/20 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No | Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No | NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 7. Are samples (except VOA and ONG) properly preserved? Yes V No 🗌 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA V Yes 🗌 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? Checked by: DAD 5/16/20 Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No L NA 🗸 Person Notified: Date: By Whom: 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

0.5

1.6

Good

Good

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) S270 (Semi-VOA) Total Coliform (Present/Absent)		Time: Relinquished by: Received by: Via: Date Time Remarks: Time: Relinquished by: Via: Clave Date Time Shufz, Ono Shufz
Turn-Around Time: 5 port Standard Rush Project Name: Councy This feet #14	Sampler: So St. St. On Ice: Tooler Temp(including cr): Cooler Temp(including cr): Cooler Type and # Type	A STATE OF THE STA	Received by: Via: Date Time Received by: Via: Cluve Date Time Shulz Office Aminantiated to other screenists dispersions This property of the state o
Client: Shate + Gallery Record Client: Shate + Gallery Record Solutions Mailing Address: 703 6. Clinton Hobbs N.M 88240 Phone #: 575-397-0570	email or Fax#: QA/QC Package: Standard	136 145 145 145 145 145 145 145 145 145 145	Date: Time: Relinquished by: Date: Time: Relinquished by: A long submitted to All Environmental may be sub



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

May 22, 2020

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

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

RE: DEVON Thistle 44H 1RP5372 OrderNo.: 2005734

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 23 sample(s) on 5/16/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-1 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 8:45:00 AM

 Lab ID:
 2005734-001
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	5/21/2020 2:32:54 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: JMR
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	5/18/2020 2:33:42 PM	52507
Surr: BFB	98.9	70-130	D	%Rec	5	5/18/2020 2:33:42 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	11000	450		mg/Kg	50	5/19/2020 8:53:21 PM	52531
Motor Oil Range Organics (MRO)	5200	2300		mg/Kg	50	5/19/2020 8:53:21 PM	52531
Surr: DNOP	0	55.1-146	S	%Rec	50	5/19/2020 8:53:21 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: JMR
Benzene	ND	0.12	D	mg/Kg	5	5/18/2020 2:33:42 PM	52507
Toluene	ND	0.25	D	mg/Kg	5	5/18/2020 2:33:42 PM	52507
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/18/2020 2:33:42 PM	52507
Xylenes, Total	ND	0.50	D	mg/Kg	5	5/18/2020 2:33:42 PM	52507
Surr: 1,2-Dichloroethane-d4	86.8	70-130	D	%Rec	5	5/18/2020 2:33:42 PM	52507
Surr: 4-Bromofluorobenzene	87.1	70-130	D	%Rec	5	5/18/2020 2:33:42 PM	52507
Surr: Dibromofluoromethane	101	70-130	D	%Rec	5	5/18/2020 2:33:42 PM	52507
Surr: Toluene-d8	96.6	70-130	D	%Rec	5	5/18/2020 2:33:42 PM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-002

Client Sample ID: AH-1 1ft

Collection Date: 5/14/2020 9:00:00 AM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 3:34:37 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 3:59:29 PM	52507
Surr: BFB	94.8	70-130	%Rec	1	5/18/2020 3:59:29 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/19/2020 9:17:42 PM	52531
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/19/2020 9:17:42 PM	52531
Surr: DNOP	141	55.1-146	%Rec	1	5/19/2020 9:17:42 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 3:59:29 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 3:59:29 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 3:59:29 PM	52507
Xylenes, Total	ND	0.10	mg/Kg	1	5/18/2020 3:59:29 PM	52507
Surr: 1,2-Dichloroethane-d4	85.7	70-130	%Rec	1	5/18/2020 3:59:29 PM	52507
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	5/18/2020 3:59:29 PM	52507
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/18/2020 3:59:29 PM	52507
Surr: Toluene-d8	96.5	70-130	%Rec	1	5/18/2020 3:59:29 PM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-003

Client Sample ID: AH-1 2ft

Collection Date: 5/14/2020 9:10:00 AM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	81	60		mg/Kg	20	5/21/2020 3:46:58 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE	<u> </u>					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/18/2020 5:25:17 PM	52507
Surr: BFB	92.8	70-130		%Rec	1	5/18/2020 5:25:17 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/19/2020 9:42:24 PM	52531
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/19/2020 9:42:24 PM	52531
Surr: DNOP	194	55.1-146	S	%Rec	1	5/19/2020 9:42:24 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	Г					Analyst	: JMR
Benzene	ND	0.025		mg/Kg	1	5/18/2020 5:25:17 PM	52507
Toluene	ND	0.050		mg/Kg	1	5/18/2020 5:25:17 PM	52507
Ethylbenzene	ND	0.050		mg/Kg	1	5/18/2020 5:25:17 PM	52507
Xylenes, Total	ND	0.099		mg/Kg	1	5/18/2020 5:25:17 PM	52507
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%Rec	1	5/18/2020 5:25:17 PM	52507
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	5/18/2020 5:25:17 PM	52507
Surr: Dibromofluoromethane	102	70-130		%Rec	1	5/18/2020 5:25:17 PM	52507
Surr: Toluene-d8	97.2	70-130		%Rec	1	5/18/2020 5:25:17 PM	52507

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 3 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-2 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 9:25:00 AM

 Lab ID:
 2005734-004
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	5/21/2020 3:59:19 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	JMR
Gasoline Range Organics (GRO)	220	5.0		mg/Kg	1	5/18/2020 5:53:58 PM	52507
Surr: BFB	117	70-130		%Rec	1	5/18/2020 5:53:58 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	11000	490		mg/Kg	50	5/20/2020 10:20:57 PM	52531
Motor Oil Range Organics (MRO)	4500	2400		mg/Kg	50	5/20/2020 10:20:57 PM	52531
Surr: DNOP	0	55.1-146	S	%Rec	50	5/20/2020 10:20:57 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	JMR
Benzene	ND	0.025		mg/Kg	1	5/18/2020 5:53:58 PM	52507
Toluene	0.19	0.050		mg/Kg	1	5/18/2020 5:53:58 PM	52507
Ethylbenzene	1.6	0.050		mg/Kg	1	5/18/2020 5:53:58 PM	52507
Xylenes, Total	9.3	0.10		mg/Kg	1	5/18/2020 5:53:58 PM	52507
Surr: 1,2-Dichloroethane-d4	93.0	70-130		%Rec	1	5/18/2020 5:53:58 PM	52507
Surr: 4-Bromofluorobenzene	37.8	70-130	S	%Rec	1	5/18/2020 5:53:58 PM	52507
Surr: Dibromofluoromethane	104	70-130		%Rec	1	5/18/2020 5:53:58 PM	52507
Surr: Toluene-d8	96.1	70-130		%Rec	1	5/18/2020 5:53:58 PM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-005

Client Sample ID: AH-2 1ft

Collection Date: 5/14/2020 9:35:00 AM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	59	mg/Kg	20	5/21/2020 4:11:40 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 4:26:12 AM	52507
Surr: BFB	95.1	70-130	%Rec	1	5/19/2020 4:26:12 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	16	10	mg/Kg	1	5/20/2020 10:45:14 PM	52531
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/20/2020 10:45:14 PM	52531
Surr: DNOP	98.1	55.1-146	%Rec	1	5/20/2020 10:45:14 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 6:22:36 PM	52507
Toluene	ND	0.049	mg/Kg	1	5/18/2020 6:22:36 PM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/18/2020 6:22:36 PM	52507
Xylenes, Total	ND	0.098	mg/Kg	1	5/18/2020 6:22:36 PM	52507
Surr: 1,2-Dichloroethane-d4	87.3	70-130	%Rec	1	5/18/2020 6:22:36 PM	52507
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	5/18/2020 6:22:36 PM	52507
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/18/2020 6:22:36 PM	52507
Surr: Toluene-d8	97.6	70-130	%Rec	1	5/18/2020 6:22:36 PM	52507

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

ting Limit Page 5 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-006

Client Sample ID: AH-2 2ft

Collection Date: 5/14/2020 9:50:00 AM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 4:24:02 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 6:51:13 PM	52507
Surr: BFB	93.9	70-130	%Rec	1	5/18/2020 6:51:13 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/20/2020 11:09:34 PM	52531
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/20/2020 11:09:34 PM	52531
Surr: DNOP	106	55.1-146	%Rec	1	5/20/2020 11:09:34 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 6:51:13 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 6:51:13 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 6:51:13 PM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/18/2020 6:51:13 PM	52507
Surr: 1,2-Dichloroethane-d4	87.5	70-130	%Rec	1	5/18/2020 6:51:13 PM	52507
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	5/18/2020 6:51:13 PM	52507
Surr: Dibromofluoromethane	104	70-130	%Rec	1	5/18/2020 6:51:13 PM	52507
Surr: Toluene-d8	96.4	70-130	%Rec	1	5/18/2020 6:51:13 PM	52507

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 6 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-3 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 10:00:00 AM

 Lab ID:
 2005734-007
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 4:36:22 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/18/2020 7:19:47 PM	52507
Surr: BFB	94.7	70-130	%Rec	1	5/18/2020 7:19:47 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/20/2020 11:33:42 PM	52531
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/20/2020 11:33:42 PM	52531
Surr: DNOP	131	55.1-146	%Rec	1	5/20/2020 11:33:42 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 7:19:47 PM	52507
Toluene	ND	0.049	mg/Kg	1	5/18/2020 7:19:47 PM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/18/2020 7:19:47 PM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/18/2020 7:19:47 PM	52507
Surr: 1,2-Dichloroethane-d4	86.6	70-130	%Rec	1	5/18/2020 7:19:47 PM	52507
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	5/18/2020 7:19:47 PM	52507
Surr: Dibromofluoromethane	105	70-130	%Rec	1	5/18/2020 7:19:47 PM	52507
Surr: Toluene-d8	95.7	70-130	%Rec	1	5/18/2020 7:19:47 PM	52507

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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-3 1ft

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 10:15:00 AM

 Lab ID:
 2005734-008
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	61	mg/Kg	20	5/21/2020 4:48:43 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 7:48:21 PM	52507
Surr: BFB	94.8	70-130	%Rec	1	5/18/2020 7:48:21 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/20/2020 11:58:01 PM	52531
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/20/2020 11:58:01 PM	52531
Surr: DNOP	62.3	55.1-146	%Rec	1	5/20/2020 11:58:01 PM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 7:48:21 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 7:48:21 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 7:48:21 PM	52507
Xylenes, Total	ND	0.10	mg/Kg	1	5/18/2020 7:48:21 PM	52507
Surr: 1,2-Dichloroethane-d4	85.6	70-130	%Rec	1	5/18/2020 7:48:21 PM	52507
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	5/18/2020 7:48:21 PM	52507
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/18/2020 7:48:21 PM	52507
Surr: Toluene-d8	96.8	70-130	%Rec	1	5/18/2020 7:48:21 PM	52507

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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-4 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 10:25:00 AM

 Lab ID:
 2005734-009
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	5/21/2020 5:01:03 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	: JMR
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	5/18/2020 8:17:00 PM	52507
Surr: BFB	97.2	70-130	D	%Rec	5	5/18/2020 8:17:00 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	9000	480		mg/Kg	50	5/21/2020 12:22:10 AM	52531
Motor Oil Range Organics (MRO)	4300	2400		mg/Kg	50	5/21/2020 12:22:10 AM	52531
Surr: DNOP	0	55.1-146	S	%Rec	50	5/21/2020 12:22:10 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	: JMR
Benzene	ND	0.12	D	mg/Kg	5	5/18/2020 8:17:00 PM	52507
Toluene	ND	0.25	D	mg/Kg	5	5/18/2020 8:17:00 PM	52507
Ethylbenzene	ND	0.25	D	mg/Kg	5	5/18/2020 8:17:00 PM	52507
Xylenes, Total	ND	0.50	D	mg/Kg	5	5/18/2020 8:17:00 PM	52507
Surr: 1,2-Dichloroethane-d4	84.5	70-130	D	%Rec	5	5/18/2020 8:17:00 PM	52507
Surr: 4-Bromofluorobenzene	86.7	70-130	D	%Rec	5	5/18/2020 8:17:00 PM	52507
Surr: Dibromofluoromethane	102	70-130	D	%Rec	5	5/18/2020 8:17:00 PM	52507
Surr: Toluene-d8	94.0	70-130	D	%Rec	5	5/18/2020 8:17:00 PM	52507

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

- 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 31

Client Sample ID: AH-4 1ft

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372 **Collection Date:** 5/14/2020 10:35:00 AM

Lab ID: 2005734-010 **Matrix:** SOIL **Received Date:** 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 5:38:04 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 8:45:33 PM	52507
Surr: BFB	94.2	70-130	%Rec	1	5/18/2020 8:45:33 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/21/2020 12:46:29 AM	52531
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/21/2020 12:46:29 AM	52531
Surr: DNOP	100	55.1-146	%Rec	1	5/21/2020 12:46:29 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 8:45:33 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 8:45:33 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 8:45:33 PM	52507
Xylenes, Total	ND	0.10	mg/Kg	1	5/18/2020 8:45:33 PM	52507
Surr: 1,2-Dichloroethane-d4	85.3	70-130	%Rec	1	5/18/2020 8:45:33 PM	52507
Surr: 4-Bromofluorobenzene	88.9	70-130	%Rec	1	5/18/2020 8:45:33 PM	52507
Surr: Dibromofluoromethane	101	70-130	%Rec	1	5/18/2020 8:45:33 PM	52507
Surr: Toluene-d8	97.3	70-130	%Rec	1	5/18/2020 8:45:33 PM	52507

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

pie pH Not in Range Page 10 of 31

Client Sample ID: AH-4 2ft

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372 **Collection Date:** 5/14/2020 10:45:00 AM

Lab ID: 2005734-011 **Matrix:** SOIL **Received Date:** 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 5:50:25 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 9:14:24 PM	52507
Surr: BFB	95.1	70-130	%Rec	1	5/18/2020 9:14:24 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	5/21/2020 1:10:38 AM	52531
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/21/2020 1:10:38 AM	52531
Surr: DNOP	101	55.1-146	%Rec	1	5/21/2020 1:10:38 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 9:14:24 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 9:14:24 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 9:14:24 PM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/18/2020 9:14:24 PM	52507
Surr: 1,2-Dichloroethane-d4	84.5	70-130	%Rec	1	5/18/2020 9:14:24 PM	52507
Surr: 4-Bromofluorobenzene	89.2	70-130	%Rec	1	5/18/2020 9:14:24 PM	52507
Surr: Dibromofluoromethane	105	70-130	%Rec	1	5/18/2020 9:14:24 PM	52507
Surr: Toluene-d8	97.9	70-130	%Rec	1	5/18/2020 9:14:24 PM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-5 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 11:00:00 AM

 Lab ID:
 2005734-012
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 6:02:47 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 9:43:09 PM	52507
Surr: BFB	95.5	70-130	%Rec	1	5/18/2020 9:43:09 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/21/2020 1:34:53 AM	52531
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/21/2020 1:34:53 AM	52531
Surr: DNOP	82.9	55.1-146	%Rec	1	5/21/2020 1:34:53 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 9:43:09 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 9:43:09 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 9:43:09 PM	52507
Xylenes, Total	ND	0.10	mg/Kg	1	5/18/2020 9:43:09 PM	52507
Surr: 1,2-Dichloroethane-d4	86.0	70-130	%Rec	1	5/18/2020 9:43:09 PM	52507
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	5/18/2020 9:43:09 PM	52507
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/18/2020 9:43:09 PM	52507
Surr: Toluene-d8	97.0	70-130	%Rec	1	5/18/2020 9:43:09 PM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-013

Client Sample ID: AH-5 1ft

Collection Date: 5/14/2020 11:15:00 AM Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 6:15:08 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/18/2020 10:12:02 PM	52507
Surr: BFB	94.4	70-130	%Rec	1	5/18/2020 10:12:02 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/21/2020 1:59:03 AM	52531
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/21/2020 1:59:03 AM	52531
Surr: DNOP	71.4	55.1-146	%Rec	1	5/21/2020 1:59:03 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 10:12:02 PM	52507
Toluene	ND	0.050	mg/Kg	1	5/18/2020 10:12:02 PM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/18/2020 10:12:02 PM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/18/2020 10:12:02 PM	52507
Surr: 1,2-Dichloroethane-d4	85.3	70-130	%Rec	1	5/18/2020 10:12:02 PM	52507
Surr: 4-Bromofluorobenzene	92.1	70-130	%Rec	1	5/18/2020 10:12:02 PM	52507
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/18/2020 10:12:02 PM	52507
Surr: Toluene-d8	96.7	70-130	%Rec	1	5/18/2020 10:12:02 PM	52507

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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-6 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 11:40:00 AM

 Lab ID:
 2005734-014
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	270	60	mg/Kg	20	5/21/2020 6:27:29 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/18/2020 10:40:53 PM	52507
Surr: BFB	95.3	70-130	%Rec	1	5/18/2020 10:40:53 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	5/22/2020 10:34:55 AM	52531
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/22/2020 10:34:55 AM	52531
Surr: DNOP	61.0	55.1-146	%Rec	1	5/22/2020 10:34:55 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	5/18/2020 10:40:53 PM	52507
Toluene	ND	0.049	mg/Kg	1	5/18/2020 10:40:53 PM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/18/2020 10:40:53 PM	52507
Xylenes, Total	ND	0.098	mg/Kg	1	5/18/2020 10:40:53 PM	52507
Surr: 1,2-Dichloroethane-d4	87.7	70-130	%Rec	1	5/18/2020 10:40:53 PM	52507
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	5/18/2020 10:40:53 PM	52507
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/18/2020 10:40:53 PM	52507
Surr: Toluene-d8	98.4	70-130	%Rec	1	5/18/2020 10:40:53 PM	52507

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

- 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 14 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-015

Client Sample ID: AH-6 1ft

Collection Date: 5/14/2020 11:55:00 AM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 6:39:50 PM	52628
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/18/2020 11:09:31 PM	52507
Surr: BFB	94.8	70-130	%Rec	1	5/18/2020 11:09:31 PM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	5/21/2020 2:47:26 AM	52531
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	5/21/2020 2:47:26 AM	52531
Surr: DNOP	127	55.1-146	%Rec	1	5/21/2020 2:47:26 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/18/2020 11:09:31 PM	52507
Toluene	ND	0.049	mg/Kg	1	5/18/2020 11:09:31 PM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/18/2020 11:09:31 PM	52507
Xylenes, Total	ND	0.098	mg/Kg	1	5/18/2020 11:09:31 PM	52507
Surr: 1,2-Dichloroethane-d4	83.0	70-130	%Rec	1	5/18/2020 11:09:31 PM	52507
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	5/18/2020 11:09:31 PM	52507
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/18/2020 11:09:31 PM	52507
Surr: Toluene-d8	95.5	70-130	%Rec	1	5/18/2020 11:09:31 PM	52507

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

- 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

eporting Limit Page 15 of 31

Client Sample ID: AH-7 Surface

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372 **Collection Date:** 5/14/2020 12:00:00 PM

Lab ID: 2005734-016 **Matrix:** SOIL **Received Date:** 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 8:06:14 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 2:02:02 AM	52507
Surr: BFB	95.7	70-130	%Rec	1	5/19/2020 2:02:02 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/21/2020 3:11:41 AM	52531
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/21/2020 3:11:41 AM	52531
Surr: DNOP	98.0	55.1-146	%Rec	1	5/21/2020 3:11:41 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	5/19/2020 2:02:02 AM	52507
Toluene	ND	0.049	mg/Kg	1	5/19/2020 2:02:02 AM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/19/2020 2:02:02 AM	52507
Xylenes, Total	ND	0.098	mg/Kg	1	5/19/2020 2:02:02 AM	52507
Surr: 1,2-Dichloroethane-d4	84.0	70-130	%Rec	1	5/19/2020 2:02:02 AM	52507
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	5/19/2020 2:02:02 AM	52507
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/19/2020 2:02:02 AM	52507
Surr: Toluene-d8	96.5	70-130	%Rec	1	5/19/2020 2:02:02 AM	52507

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 16 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-017

Client Sample ID: AH-7 1ft

Collection Date: 5/14/2020 12:10:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	61	mg/Kg	20	5/21/2020 8:43:17 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/19/2020 2:30:49 AM	52507
Surr: BFB	92.4	70-130	%Rec	1	5/19/2020 2:30:49 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	13	9.0	mg/Kg	1	5/21/2020 3:35:37 AM	52531
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/21/2020 3:35:37 AM	52531
Surr: DNOP	93.5	55.1-146	%Rec	1	5/21/2020 3:35:37 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/19/2020 2:30:49 AM	52507
Toluene	ND	0.050	mg/Kg	1	5/19/2020 2:30:49 AM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/19/2020 2:30:49 AM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/19/2020 2:30:49 AM	52507
Surr: 1,2-Dichloroethane-d4	87.0	70-130	%Rec	1	5/19/2020 2:30:49 AM	52507
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	5/19/2020 2:30:49 AM	52507
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/19/2020 2:30:49 AM	52507
Surr: Toluene-d8	95.6	70-130	%Rec	1	5/19/2020 2:30:49 AM	52507

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

- 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 17 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-018

Client Sample ID: AH-8 Surface

Collection Date: 5/14/2020 12:20:00 PM Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	270	60	mg/Kg	20	5/21/2020 8:55:37 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/19/2020 2:59:48 AM	52507
Surr: BFB	96.5	70-130	%Rec	1	5/19/2020 2:59:48 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/21/2020 3:59:47 AM	52531
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/21/2020 3:59:47 AM	52531
Surr: DNOP	93.3	55.1-146	%Rec	1	5/21/2020 3:59:47 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/19/2020 2:59:48 AM	52507
Toluene	ND	0.050	mg/Kg	1	5/19/2020 2:59:48 AM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/19/2020 2:59:48 AM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/19/2020 2:59:48 AM	52507
Surr: 1,2-Dichloroethane-d4	85.6	70-130	%Rec	1	5/19/2020 2:59:48 AM	52507
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	5/19/2020 2:59:48 AM	52507
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/19/2020 2:59:48 AM	52507
Surr: Toluene-d8	95.7	70-130	%Rec	1	5/19/2020 2:59:48 AM	52507

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 18 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-019

Client Sample ID: AH-8 1ft

Collection Date: 5/14/2020 12:35:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	85	60	mg/Kg	20	5/21/2020 9:07:58 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 3:28:45 AM	52507
Surr: BFB	94.7	70-130	%Rec	1	5/19/2020 3:28:45 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/21/2020 4:23:50 AM	52531
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/21/2020 4:23:50 AM	52531
Surr: DNOP	118	55.1-146	%Rec	1	5/21/2020 4:23:50 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/19/2020 3:28:45 AM	52507
Toluene	ND	0.049	mg/Kg	1	5/19/2020 3:28:45 AM	52507
Ethylbenzene	ND	0.049	mg/Kg	1	5/19/2020 3:28:45 AM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/19/2020 3:28:45 AM	52507
Surr: 1,2-Dichloroethane-d4	87.9	70-130	%Rec	1	5/19/2020 3:28:45 AM	52507
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	5/19/2020 3:28:45 AM	52507
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/19/2020 3:28:45 AM	52507
Surr: Toluene-d8	97.3	70-130	%Rec	1	5/19/2020 3:28:45 AM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-020

Client Sample ID: AH-9 Surface

Collection Date: 5/14/2020 12:45:00 PM Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 9:20:19 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/19/2020 3:57:29 AM	52507
Surr: BFB	95.0	70-130	%Rec	1	5/19/2020 3:57:29 AM	52507
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/21/2020 4:47:52 AM	52531
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/21/2020 4:47:52 AM	52531
Surr: DNOP	106	55.1-146	%Rec	1	5/21/2020 4:47:52 AM	52531
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	5/19/2020 3:57:29 AM	52507
Toluene	ND	0.050	mg/Kg	1	5/19/2020 3:57:29 AM	52507
Ethylbenzene	ND	0.050	mg/Kg	1	5/19/2020 3:57:29 AM	52507
Xylenes, Total	ND	0.099	mg/Kg	1	5/19/2020 3:57:29 AM	52507
Surr: 1,2-Dichloroethane-d4	84.9	70-130	%Rec	1	5/19/2020 3:57:29 AM	52507
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	5/19/2020 3:57:29 AM	52507
Surr: Dibromofluoromethane	104	70-130	%Rec	1	5/19/2020 3:57:29 AM	52507
Surr: Toluene-d8	97.6	70-130	%Rec	1	5/19/2020 3:57:29 AM	52507

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

- 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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-021

Client Sample ID: AH-9 1ft

Collection Date: 5/14/2020 12:55:00 PM **Received Date:** 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 9:32:40 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/19/2020 12:18:44 AM	52508
Surr: BFB	99.2	70-130	%Rec	1	5/19/2020 12:18:44 AM	52508
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	12	9.5	mg/Kg	1	5/19/2020 10:45:36 PM	52538
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/19/2020 10:45:36 PM	52538
Surr: DNOP	69.2	55.1-146	%Rec	1	5/19/2020 10:45:36 PM	52538
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	5/19/2020 12:18:44 AM	52508
Toluene	ND	0.049	mg/Kg	1	5/19/2020 12:18:44 AM	52508
Ethylbenzene	ND	0.049	mg/Kg	1	5/19/2020 12:18:44 AM	52508
Xylenes, Total	ND	0.097	mg/Kg	1	5/19/2020 12:18:44 AM	52508
Surr: 1,2-Dichloroethane-d4	91.0	70-130	%Rec	1	5/19/2020 12:18:44 AM	52508
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	5/19/2020 12:18:44 AM	52508
Surr: Dibromofluoromethane	90.2	70-130	%Rec	1	5/19/2020 12:18:44 AM	52508
Surr: Toluene-d8	101	70-130	%Rec	1	5/19/2020 12:18:44 AM	52508

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 21 of 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: AH-10 Surface

 Project:
 DEVON Thistle 44H 1RP5372
 Collection Date: 5/14/2020 1:05:00 PM

 Lab ID:
 2005734-022
 Matrix: SOIL
 Received Date: 5/16/2020 8:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses Analyst: CAS **EPA METHOD 300.0: ANIONS** Chloride 290 60 mg/Kg 20 5/21/2020 9:45:01 PM 52637 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 4.9 mg/Kg 5/19/2020 1:48:23 AM 52508 Surr: BFB 100 70-130 %Rec 1 5/19/2020 1:48:23 AM 52508 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.6 mg/Kg 5/21/2020 5:17:04 AM 52538 Motor Oil Range Organics (MRO) ND mg/Kg 1 5/21/2020 5:17:04 AM 52538 48 Surr: DNOP 82.7 55.1-146 %Rec 5/21/2020 5:17:04 AM 52538 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR ND 5/19/2020 1:48:23 AM 52508 Benzene 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 5/19/2020 1:48:23 AM 52508 Ethylbenzene ND 0.049 mg/Kg 1 5/19/2020 1:48:23 AM 52508 Xylenes, Total ND 0.099 mg/Kg 5/19/2020 1:48:23 AM 52508 Surr: 1,2-Dichloroethane-d4 92.6 70-130 %Rec 5/19/2020 1:48:23 AM 52508 Surr: 4-Bromofluorobenzene 90.9 70-130 %Rec 1 5/19/2020 1:48:23 AM 52508 Surr: Dibromofluoromethane 90.7 70-130 %Rec 1 5/19/2020 1:48:23 AM 52508 Surr: Toluene-d8 103 70-130 %Rec 5/19/2020 1:48:23 AM 52508

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 31

Date Reported: 5/22/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: DEVON Thistle 44H 1RP5372

Lab ID: 2005734-023

Client Sample ID: AH-10 1ft

Collection Date: 5/14/2020 1:20:00 PM

Received Date: 5/16/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	5/21/2020 9:57:22 PM	52637
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/19/2020 3:17:30 AM	52508
Surr: BFB	103	70-130	%Rec	1	5/19/2020 3:17:30 AM	52508
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/19/2020 11:34:15 PM	52538
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/19/2020 11:34:15 PM	52538
Surr: DNOP	98.5	55.1-146	%Rec	1	5/19/2020 11:34:15 PM	52538
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	5/19/2020 3:17:30 AM	52508
Toluene	ND	0.048	mg/Kg	1	5/19/2020 3:17:30 AM	52508
Ethylbenzene	ND	0.048	mg/Kg	1	5/19/2020 3:17:30 AM	52508
Xylenes, Total	ND	0.096	mg/Kg	1	5/19/2020 3:17:30 AM	52508
Surr: 1,2-Dichloroethane-d4	91.6	70-130	%Rec	1	5/19/2020 3:17:30 AM	52508
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	5/19/2020 3:17:30 AM	52508
Surr: Dibromofluoromethane	92.6	70-130	%Rec	1	5/19/2020 3:17:30 AM	52508
Surr: Toluene-d8	102	70-130	%Rec	1	5/19/2020 3:17:30 AM	52508

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

- 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 31

Hall Environmental Analysis Laboratory, Inc.

22-May-20

2005734

WO#:

Client: Safety & Environmental Solutions **Project:** DEVON Thistle 44H 1RP5372

Sample ID: MB-52628 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52628 RunNo: 69084

SeqNo: 2392566 Prep Date: 5/21/2020 Analysis Date: 5/21/2020 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-52628 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52628 RunNo: 69084

Units: mg/Kg Prep Date: 5/21/2020 Analysis Date: 5/21/2020 SeqNo: 2392567

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

Analyte HighLimit Chloride 14 1.5 15.00 94.5 110

Sample ID: MB-52637 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52637 RunNo: 69084

Prep Date: 5/21/2020 Analysis Date: 5/21/2020 SeqNo: 2392598 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52637 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52637 RunNo: 69084

Prep Date: 5/21/2020 Analysis Date: 5/21/2020 SeqNo: 2392599 Units: mg/Kg

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

14 Chloride 1.5 15.00 n 93.8 90 110

Qualifiers:

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

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

Page 24 of 31

Client:

Project:

Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

DEVON Thistle 44H 1RP5372

WO#: **2005734 22-May-20**

Sample ID: MB-52538	SampType:	MBLK	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID:	52538	F	RunNo: 68994				
Prep Date: 5/18/2020	Analysis Date:	5/19/2020	S	SeqNo: 2390222	Units: mg/K	(g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MRO)	ND	50						
Surr: DNOP	11	10.00		110 55	.1 146			
Sample ID: LCS-52538	SampType:	LCS	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	52538	F	RunNo: 68994				
Prep Date: 5/18/2020	Analysis Date:	5/19/2020	\$	SeqNo: 2390223	Units: mg/K	(g		
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLin	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10 50.00	0	105 7	0 130			
Surr: DNOP	5.0	5.000		99.0 55	.1 146			
Sample ID: LCS-52531	SampType:	LCS	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID:	52531	F	RunNo: 69010				
Prep Date: 5/18/2020	Analysis Date:	5/19/2020	S	SeqNo: 2390295	Units: mg/K	(g		
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC LowLim	nit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10 50.00	0	110 7	0 130			
Surr: DNOP	5.2	5.000		104 55	.1 146			
Sample ID: MB-52531	SampType:	MBLK	Tes	tCode: EPA Meth	od 8015M/D: Die	esel Range	e Organics	

Client ID: PBS	Batcl	h ID: 52 :	531	F	RunNo: 6	9010				
Prep Date: 5/18/2020	Analysis D	19/2020	9	SeqNo: 2	390297	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	14		10.00		135	55.1	146			

Sample ID: MB-52569	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 52569	RunNo: 69027	
Prep Date: 5/19/2020	Analysis Date: 5/20/2020	SeqNo: 2390565	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.0 10.00 89.8 55.1 146

Qualifiers:

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

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

Page 25 of 31

Hall Environmental Analysis Laboratory, Inc.

0#: 2005734 22-May-20

WO#:

Client: Safety & Environmental Solutions
Project: DEVON Thistle 44H 1RP5372

Sample ID: LCS-52569 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 52569 RunNo: 69027

Prep Date: 5/19/2020 Analysis Date: 5/20/2020 SeqNo: 2390897 Units: %Rec

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

Surr: DNOP 4.3 5.000 85.0 55.1 146

Sample ID: MB-52598 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **52598** RunNo: **69068**

Prep Date: 5/20/2020 Analysis Date: 5/22/2020 SeqNo: 2392532 Units: %Rec

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

Surr: DNOP 11 10.00 107 55.1 146

Sample ID: MB-52605 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 52605 RunNo: 69068

Prep Date: 5/20/2020 Analysis Date: 5/21/2020 SeqNo: 2392533 Units: %Rec

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

Surr: DNOP 9.6 10.00 95.9 55.1 146

Sample ID: LCS-52598 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 52598 RunNo: 69068

Prep Date: 5/20/2020 Analysis Date: 5/22/2020 SeqNo: 2392534 Units: %Rec

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

Surr: DNOP 4.2 5.000 83.8 55.1 146

Sample ID: LCS-52605 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 52605 RunNo: 69068

4.4

Prep Date: 5/20/2020 Analysis Date: 5/21/2020 SeqNo: 2392535 Units: %Rec

5.000

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

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

87 7

55.1

146

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

Page 26 of 31

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005734**

22-May-20

Client: Safety & Environmental Solutions
Project: DEVON Thistle 44H 1RP5372

Sample ID: mb-52507 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: 52507 RunNo: 68993 Prep Date: 5/16/2020 Analysis Date: 5/18/2020 SeqNo: 2388436 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 70 Surr: 1,2-Dichloroethane-d4 0.43 0.5000 85.7 130 Surr: 4-Bromofluorobenzene 0.44 0.5000 88.9 70 130 Surr: Dibromofluoromethane 0.51 0.5000 102 70 130 Surr: Toluene-d8 0.49 0.5000 99.0 70 130

Sample ID: Ics-52507 SampType: LCS TestCode: EPA Method 8260B: Volatiles Short List Client ID: LCSS Batch ID: 52507 RunNo: 68993 Prep Date: 5/16/2020 Analysis Date: 5/18/2020 SeqNo: 2388437 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual 1.0 0.025 1.000 0 104 70 130 Benzene 0 Toluene 1.0 0.050 1.000 103 70 130 Ethylbenzene 1.1 0.050 1.000 0 111 70 130 Xylenes, Total 3.2 0.10 3.000 0 108 70 130 Surr: 1,2-Dichloroethane-d4 85.5 70 0.43 0.5000 130 Surr: 4-Bromofluorobenzene 0.44 0.5000 89.0 70 130 Surr: Dibromofluoromethane 102 70 130 0.51 0.5000 Surr: Toluene-d8 0.49 0.5000 98.8 70 130

Sample ID: 2005734-001ams	SampType: MS TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: AH-1 Surface	Batch	ID: 52	507	R	RunNo: 68993					
Prep Date: 5/16/2020	Analysis D	ate: 5/	18/2020	S	SeqNo: 2388439 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.12	0.9794	0	80.0	70	130			
Toluene	0.75	0.24	0.9794	0	76.9	70	130			
Ethylbenzene	0.76	0.24	0.9794	0	77.7	70	130			
Xylenes, Total	2.2	0.49	2.938	0	73.6	70	130			
Surr: 1,2-Dichloroethane-d4	2.1		2.449		84.6	70	130			
Surr: 4-Bromofluorobenzene	2.1		2.449		86.0	70	130			
Surr: Dibromofluoromethane	2.5		2.449		101	70	130			
Surr: Toluene-d8	2.4		2.449		96.0	70	130			

Qualifiers:

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

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

Page 27 of 31

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005734**

22-May-20

Client: Safety & Environmental Solutions
Project: DEVON Thistle 44H 1RP5372

Sample ID: 2005734-001amsd	I SampT	SampType: MSD TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: AH-1 Surface	Batch	n ID: 52	507	F	RunNo: 6	8993				
Prep Date: 5/16/2020	Analysis D	oate: 5/	18/2020	\$	SeqNo: 2	388440	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.12	0.9980	0	91.9	70	130	15.7	20	
Toluene	0.91	0.25	0.9980	0	91.0	70	130	18.7	20	
Ethylbenzene	0.97	0.25	0.9980	0	97.6	70	130	24.6	0	
Xylenes, Total	2.8	0.50	2.994	0	94.6	70	130	26.8	0	
Surr: 1,2-Dichloroethane-d4	2.1		2.495		84.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.2		2.495		89.4	70	130	0	0	
Surr: Dibromofluoromethane	2.5		2.495		101	70	130	0	0	
Surr: Toluene-d8	2.4		2.495		97.0	70	130	0	0	
Sample ID: mb-52508	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	·
Client ID: PBS	Batch	508	F	RunNo: 6	9005					

Sample ID. IIID-32306	Samp	ype. wi	DLN	169	residude. EFA Method 6200b. Volatiles Short List						
Client ID: PBS	Batc	h ID: 52	508	F	RunNo: 6	9005					
Prep Date: 5/16/2020	Analysis [Date: 5/	18/2020	S	389068	(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: 1,2-Dichloroethane-d4	0.46		0.5000		92.8	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.4	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		91.6	70	130				
Surr: Toluene-d8	0.50		0.5000		99.7	70	130				

Sample ID: Ics-52508	SampT	ype: LC	S4	Tes	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: BatchQC	Batcl	n ID: 52	508	F	RunNo: 69005					
Prep Date: 5/16/2020	Analysis D	Date: 5/	18/2020	S	SeqNo: 2389069 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.2	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.0	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.2	70	130			
Surr: Toluene-d8	0.50		0.5000		99.3	70	130			

Qualifiers:

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

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

Page 28 of 31

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005734**

22-May-20

Client: Safety & Environmental Solutions
Project: DEVON Thistle 44H 1RP5372

Sample ID: 2005734-021ams	Samp	Гуре: МS	64	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: AH-9 1ft	Batc	Batch ID: 52508 RunNo: 6900										
Prep Date: 5/16/2020	Analysis [Date: 5/	19/2020	9	SeqNo: 2389073 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.85	0.024	0.9597	0	88.5	71.1	115					
Toluene	0.98	0.048	0.9597	0	103	79.6	132					
Ethylbenzene	1.0	0.048	0.9597	0	107	83.8	134					
Xylenes, Total	3.0	0.096	2.879	0	103	82.4	132					
Surr: 1,2-Dichloroethane-d4	0.47		0.4798		97.5	70	130					
Surr: 4-Bromofluorobenzene	0.44		0.4798		91.8	70	130					
Surr: Dibromofluoromethane	0.46		0.4798		95.6	70	130					
Surr: Toluene-d8	0.49		0.4798		103	70	130					

Sample ID: 2005734-021amsd	SampType: MSD4 TestCode: EPA Method						8260B: Volatiles Short List				
Client ID: AH-9 1ft	Batch	n ID: 52	508	F	RunNo: 69005						
Prep Date: 5/16/2020	Analysis D	oate: 5/	19/2020	S	SeqNo: 2389074 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.88	0.025	0.9881	0	88.7	71.1	115	3.11	20		
Toluene	1.1	0.049	0.9881	0	112	79.6	132	12.1	20		
Ethylbenzene	1.1	0.049	0.9881	0	116	83.8	134	10.5	20		
Xylenes, Total	3.4	0.099	2.964	0	113	82.4	132	12.2	20		
Surr: 1,2-Dichloroethane-d4	0.45		0.4941		91.2	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.46		0.4941		92.6	70	130	0	0		
Surr: Dibromofluoromethane	0.45		0.4941		91.1	70	130	0	0		
Surr: Toluene-d8	0.52		0.4941		105	70	130	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 29 of 31

Client:

Hall Environmental Analysis Laboratory, Inc.

Safety & Environmental Solutions

WO#: **2005734 22-May-20**

Project: DEVON	Thistle 44I	H 1RP5	5372							
Sample ID: mb-52507	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	ID: 52	507	F	RunNo: 68	3993				
Prep Date: 5/16/2020	Analysis Da	ate: 5/	18/2020	5	SeqNo: 23	388462	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					<u> </u>			
Surr: BFB	470		500.0		94.3	70	130			
Sample ID: Ics-52507	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	ID: 52	507	F	RunNo: 68	3993				
Prep Date: 5/16/2020	Analysis Da	ate: 5/	18/2020	5	SeqNo: 23	388463	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.8	70	130			
Surr: BFB	470		500.0		93.3	70	130			
Sample ID: 2005734-002ams	SampT	ype: M \$	6	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: AH-1 1ft	Batch	ID: 52	507	F	RunNo: 68	3993				
Prep Date: 5/16/2020	Analysis Da	ate: 5/	18/2020	SeqNo: 2388468 Units: mg/Kg				(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.95	0	82.6	70	130			
Surr: BFB	470		499.0		94.9	70	130			
Sample ID: 2005734-002amsc	I SampT	уре: М\$	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: AH-1 1ft	Batch	ID: 52	507	F	RunNo: 68	3993				
Prep Date: 5/16/2020	Analysis Da	ate: 5/	18/2020	S	SeqNo: 23	388469	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.98	0	79.2	70	130	4.05	20	
Surr: BFB	240		249.8		97.2	70	130	0	0	
Sample ID: mb-52508	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch	ID: 52	508	F	RunNo: 6 9	9005				
Prep Date: 5/16/2020	Analysis Da	ate: 5/	18/2020	5	SeqNo: 23	389081	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		- 					- 	

Qualifiers:

Analyte

Surr: BFB

Sample ID: Ics-52508

Prep Date: 5/16/2020

Client ID: LCSS

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

490

Result

SampType: LCS

Batch ID: 52508

Analysis Date: 5/18/2020

- 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

98.7

RunNo: 69005

%REC

SeqNo: 2389082

70

LowLimit

TestCode: EPA Method 8015D Mod: Gasoline Range

130

Units: mg/Kg

HighLimit

%RPD

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

500.0

SPK value SPK Ref Val

Page 30 of 31

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

2005734 22-May-20

WO#:

Client: Safety & Environmental Solutions **Project:** DEVON Thistle 44H 1RP5372

Sample ID: Ics-52508 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

RunNo: 69005 Client ID: LCSS Batch ID: 52508

Prep Date: 5/16/2020 Analysis Date: 5/18/2020 SeqNo: 2389082 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0 Gasoline Range Organics (GRO) 23 5.0 25.00 90.7 70 130 Surr: BFB 500 500.0 99.0 70 130

Sample ID: 2005734-022ams TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MS

AH-10 Surface Batch ID: 52508 RunNo: 69005

Prep Date: 5/16/2020 Analysis Date: 5/19/2020 SeqNo: 2389098 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 20 4.9 24.56 0 82.1 130

Surr: BFB 490 491.2 99.3 70 130

Sample ID: 2005734-022amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: AH-10 Surface Batch ID: 52508 RunNo: 69005

Prep Date: 5/16/2020 Analysis Date: 5/19/2020 SeqNo: 2389099 Units: mg/Kg

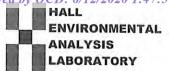
%RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC HighLimit Qual Analyte LowLimit Gasoline Range Organics (GRO) 23 5.0 24.78 0 93.4 70 130 13.8 20 Surr: BFB 490 495.5 98.2 70 130 0 0

Qualifiers:

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

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

Page 31 of 31



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions Work Order Number: 2005734 RcptNo: 1 Received By: Leah Baca 5/16/2020 8:00:00 AM Completed By: Leah Baca 5/16/2020 8:27:50 AM 5/14/20 Reviewed By: 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? Yes V No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes V NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No _ Sufficient sample volume for indicated test(s)? Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? Yes No V NA 🗌 Received at least 1 vial with headspace <1/4" for AQ VOA? NA V Yes No Yes _ 10. Were any sample containers received broken? No V # of preserved bottles checked Yes V 11. Does paperwork match bottle labels? No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 13. Is it clear what analyses were requested? Yes V No 🗌 Checked by: DAD 5/16/20 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 No NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By

2

0.5

1.6

Good

Good

Client	Shain	of-C	ust	Chain-of-Custody Record	ord	Turn-Around Time:	S Rus	D~Y			<	HALL	<u> </u>	N S	IR.	NO NO	HALL ENVIRONMENTAL	TAL	ceived by
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	AC	□ Other	er			On Ice:	₽ Yes	□ No	. /							<u>"</u> ид)			
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HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	S PCB's	3RO / DI des/8082 des/8087 des sle con ₂₅ , NO ₂	Pesticio Method by 831 8 Met Br, No VOA)	8081 F 8081 F PAHS RCRA CI, F, CI, F,	×								~	× × ×		idiks.	Date Time SIM ONU
Turn-Around Time: 5 Pay Standard Rush Project.Name: Devent H Wot 208 (1857 Project #: 188-5372	100-61-000	Project Manager: Allen, Peb (8021)	L'COLT	uding CF): 1' V (" 2 = " (" C)	Container Preservative HEAL No. III	-013) h10-	()	010	(310-	610-	1020-	(-020	X 820-)	Time	W/W 5/10 1220	
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December 30, 2019

Bob Allen Safety & Environmental Solutions 703 East Clinton

Hobbs, NM 88240

RE: DEV-19-009

Enclosed are the results of analyses for samples received by the laboratory on 12/20/19 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

1 10005 INI¹1, 00240

Fax To: (575) 393-4388

Received: 12/20/2019 Reported: 12/30/2019

Project Name: DEV-19-009
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 1 SURFACE (H904254-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	35600	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	119 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	129 9	37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2019 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 2 SURFACE (H904254-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	3110	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	572	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	142 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	228 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN

Project Location: **NOT GIVEN** Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: AH - 3 SURFACE (H904254-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	71.4	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	3730	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	687	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	150	% 41-142	?						
Surrogate: 1-Chlorooctadecane	251	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN Sampling Date: 12/19/2019 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: AH - 4 SURFACE (H904254-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	62.6	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	3270	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	566	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	147	% 41-142	?						
Surrogate: 1-Chlorooctadecane	235	% 37.6-14	7						

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S-04



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 5 SURFACE (H904254-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	0.387	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	2.91	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	15.7	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	18.9	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	164 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	521	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	8990	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	1480	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	214 9	% 41-142	1						

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 391 % 37.6-147

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: AH - 6 SURFACE (H904254-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	0.269	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	2.29	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	11.5	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	14.0	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	155 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	545	10.0	12/23/2019	ND	218	109	200	8.26	
	10200	10.0	12/23/2019	ND	220	110	200	6.72	
DRO >C10-C28*	10200	20.0							

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Surrogate: 1-Chlorooctadecane

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429 %

37.6-147



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN

Project Location: NOT GIVEN

mg/kg

Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 7 SURFACE (H904254-07)

BTEX 8021B

	9/	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	119	% 41-142	•						
Surrogate: 1-Chlorooctadecane	128	% 37.6-14	7						

Analyzed By: MS

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN

Project Location: NOT GIVEN

mg/kg

Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 8 SURFACE (H904254-08)

BTEX 8021B

DRO >C10-C28*

EXT DRO > C28 - C36

				•					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	0.291	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	2.35	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	11.6	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	14.3	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	144	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	563	10.0	12/23/2019	ND	218	109	200	8.26	

ND

ND

220

110

200

6.72

12/23/2019

12/23/2019

Analyzed By: MS

Surrogate: 1-Chlorooctane 179 % 41-142
Surrogate: 1-Chlorooctadecane 438 % 37.6-147

10300

1670

10.0

10.0

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019 Reported: 12/30/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date:

12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 9 SURFACE (H904254-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	< 0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	117	% 41-142	,						
Surrogate: 1-Chlorooctadecane	129	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN

Project Location: **NOT GIVEN** Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: AH - 10 SURFACE (H904254-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/26/2019	ND	1.64	82.0	2.00	14.7	
Toluene*	<0.050	0.050	12/26/2019	ND	1.64	81.8	2.00	14.5	
Ethylbenzene*	<0.050	0.050	12/26/2019	ND	1.67	83.7	2.00	14.5	
Total Xylenes*	<0.150	0.150	12/26/2019	ND	4.86	81.0	6.00	15.0	
Total BTEX	<0.300	0.300	12/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 9	73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	117 %	6 41-142							
Surrogate: 1-Chlorooctadecane	128 %	6 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019
Project Name: DEV-19-009
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 12/19/2019 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: AH - 11 SURFACE (H904254-11)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	12/23/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	12/23/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<0.150	0.150	12/23/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<0.300	0.300	12/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	118 9	6 41-142	1						

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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129 %

37.6-147



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN

Project Location: **NOT GIVEN** Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: AH - 12 SURFACE (H904254-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	12/23/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	12/23/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<0.150	0.150	12/23/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<0.300	0.300	12/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	117 %	6 41-142	!						
Surrogate: 1-Chlorooctadecane	128 9	37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton

Hobbs NM, 88240

Fax To: (575) 393-4388

Received: 12/20/2019

Reported: 12/30/2019 Project Name: DEV-19-009 Project Number: NONE GIVEN

Project Location: **NOT GIVEN** Sampling Date: 12/19/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: AH - 13 1' (H904254-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2019	ND	1.64	82.2	2.00	16.6	
Toluene*	<0.050	0.050	12/23/2019	ND	1.65	82.4	2.00	17.3	
Ethylbenzene*	<0.050	0.050	12/23/2019	ND	1.65	82.6	2.00	13.1	
Total Xylenes*	<0.150	0.150	12/23/2019	ND	5.00	83.3	6.00	17.1	
Total BTEX	<0.300	0.300	12/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	12/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2019	ND	218	109	200	8.26	
DRO >C10-C28*	<10.0	10.0	12/23/2019	ND	220	110	200	6.72	
EXT DRO >C28-C36	<10.0	10.0	12/23/2019	ND					
Surrogate: 1-Chlorooctane	123 %	% 41-142	1						
Surrogate: 1-Chlorooctadecane	133 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company name:	Safety and Environmental Solutions	onmental Solution	ons	BILL TO	170		ANALYSIS	YSIS REQUEST	EST	
Project Manager:	1			P.O. #:					4	
Address: 70	1, PO	Box 1613		Company: Sa	Same					
city: Ho	Hobbs	State: NM Zip:	88240							
Phone #: 575	575 397-0510 F	Fax #: 575 393-4388	4388	Address:						
Project #: DE	V-19-009 P	Project Owner:		City:						
Project Name:				State: Zip:	Ö.					
Project Location:				#		la,	5			
Sampler Name:	びらか! マー	1		Fax #:		<u> </u>				
FOR LAB USE ONLY	0	P.	MATRIX	PRESERV.	SAMPLING	C	~e			
- h		R (C)OMF	WATER			GX PH	-101-			
h36406H		(G)RAB C	# CONTA GROUND WASTEW SOIL OIL SLUDGE	OTHER: ACID/BAS CE / COC OTHER:	DATE TIME	13	CA			
	チー ペッ	four a	D	(C)	7	X	V.			
2	1-4-2 L	5 0	X	0	2/19 1045	1 1 1				
US	るかい	2	8	70	2/19 1105					
t	大中 丁	'' G	S	75	269 1125					
5	3-1-12 C	-C2	7	×	219 1155					
6	AATO G	20	6	X	269 1170					
2	6	5	2/5	1	12					
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Č,	A4-10 :	5	ر کر	X	7	7	O			
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Relinquished By:		Date: /26/16 Rec	Received/By:	100		esult: Yes	□ No Add'l Phone #:	ione#:		
3	day	130	lamara c	What	REMARKS					
(Time:		1						
Delivered By:		149	Sample	НЭ	BY:					
Sampler - UPS -	Bus - Other:	ected 3.3		10						

Relinquished By

Date: Time:

Received By:

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Delivered By: (Circle One) 2.90

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Safety and Environmental Solutions	-
Project Manager: Bob Allen	P.O. #: ANALYSIS REQUEST
Address: 703 East Clinton, PO Box 1613	Company: Same
M	Attn:
575 397-0510	Address:
Project #: 1) EV = 19 - 00 9 Project Owner:	City:
Project Name:	State: Zip:
Project Location:	+
N SE	Prione #
FOR LARIES ONLY	Fax#:
MATRIX	PRESERV. SAMPLING
CONTAINERS FROUNDWATER VASTEWATER OIL LUDGE	THER: CID/BASE: E / COOL THER:
d	3
X 11 5 myses 0,11 X	X 12/19 0142 X
3 1 5 Lt 8 1 A	X Will Drev XXX
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim addition what	
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business made in writing and received by Cardinal within 30 days after completion of the applicat affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above above above and the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above above above above and the above	or tort, shall be limited to the amount paid by the client for the received by Cardinal within 30 days after completion of the applicable oss of two, or loss of profits incurred by clernt, its subsidiaries, based upon any of the above state by client, its subsidiaries,
Date: 20(5 Received By:	Phone Result: Yes No Add'l Phone #:
Time 930 Mallaka	□ No



January 22, 2020

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: DEV-19-009

Enclosed are the results of analyses for samples received by the laboratory on 01/17/20 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

regulated voes (v1, v2, v5)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

DEVON - THISTLE 44

NOT GIVEN

Sample ID: SP - 1	1' (H000187-01)
BTEX 8021B	

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.82	91.2	2.00	14.1	
Toluene*	<0.050	0.050	01/20/2020	ND	1.89	94.5	2.00	14.3	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.88	94.2	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.60	93.3	6.00	13.9	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/22/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	98.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

DEVON - THISTLE 44

Sampling Type:

Soil

Project Name:

BTEX 8021B

EXT DRO >C28-C36

DEV-19-009

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

mg/kg

Sample ID: SP - 2 1' (H000187-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.82	91.2	2.00	14.1	
Toluene*	<0.050	0.050	01/20/2020	ND	1.89	94.5	2.00	14.3	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.88	94.2	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.60	93.3	6.00	13.9	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg/ Result	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			-		BS 400	% Recovery	True Value QC	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 01/22/2020	Method Blank		,	·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 01/22/2020	Method Blank		,	·		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 1060 mg/	Reporting Limit 16.0	Analyzed 01/22/2020 Analyze	Method Blank ND d By: MS	400	100	400	0.00	

ND

01/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 95.1 % 41-142
Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

<10.0

10.0

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Celeg D. Freene



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition:

Cool & Intact

Project Number:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: SP - 3 1' (H000187-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.82	91.2	2.00	14.1	
Toluene*	<0.050	0.050	01/20/2020	ND	1.89	94.5	2.00	14.3	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.88	94.2	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.60	93.3	6.00	13.9	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	01/22/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.0	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

DEVON - THISTLE 44

Project Location: **NOT GIVEN**

Sample ID: TT - 4 2' (H000187-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.82	91.2	2.00	14.1	
Toluene*	<0.050	0.050	01/20/2020	ND	1.89	94.5	2.00	14.3	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.88	94.2	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.60	93.3	6.00	13.9	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/22/2020	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	93.9 9	% 41-142							
Surrogate: 1-Chlorooctadecane	95.3 9	37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

BTEX 8021B

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition:

Cool & Intact

Project Number:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

mg/kg

Sample ID: TT - 5 1' (H000187-05)

DILX GOZID	ıııg,	K9	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2020	ND	1.82	91.2	2.00	14.1	
Toluene*	<0.050	0.050	01/20/2020	ND	1.89	94.5	2.00	14.3	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	1.88	94.2	2.00	13.7	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.60	93.3	6.00	13.9	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	89.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition:

Cool & Intact

Project Number:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: TT - 6 1' (H000187-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	94.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition:

Cool & Intact

Project Number:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: TT - 7 1' (H000187-07)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.4	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

BTEX 8021B

DRO >C10-C28*

EXT DRO >C28-C36

DEV-19-009

mg/kg

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

DEVON - THISTLE 44

Project Location: NOT GIVEN

Sample ID: TT - 8 1' (H000187-08)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result 4720	Reporting Limit	Analyzed 01/22/2020	Method Blank	BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
•		16.0	01/22/2020			,	·		Qualifier
Chloride	4720	16.0	01/22/2020	ND		,	·		Qualifier Qualifier

ND

ND

201

100

200

2.69

01/21/2020

01/21/2020

Analyzed By: MS

Surrogate: 1-Chlorooctane 96.0 % 41-142
Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

<10.0

<10.0

10.0

10.0

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

DEVON - THISTLE 44

Project Location: **NOT GIVEN**

Sample ID: TT - 9 1' (H000187-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.2	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition:

Cool & Intact

Project Number:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: TT - 10 1' (H000187-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	< 0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	< 0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	< 0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	98.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	98.2 9	% 37.6-14	7						

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Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

BTEX 8021B

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Number:

DEVON - THISTLE 44

Project Location:

NOT GIVEN

mg/kg

Sample ID: TT - 11 1' (H000187-11)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Chloride, SM4500CI-B Analyte	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
· · · · · · · · · · · · · · · · · · ·			<u> </u>		BS 416	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 01/22/2020	Method Blank		•	·		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 01/22/2020	Method Blank		•	·		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 1460 mg/	Reporting Limit 16.0	Analyzed 01/22/2020 Analyze	Method Blank ND d By: MS	416	104	400	0.00	
Analyte Chloride TPH 8015M Analyte	Result 1460 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 01/22/2020 Analyzed Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	

41-142

37.6-147

Analyzed By: MS

Surrogate: 1-Chlorooctane 93.7 %
Surrogate: 1-Chlorooctadecane 97.3 %

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

BTEX 8021B

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

DEV-19-009

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

DEVON - THISTLE 44

Project Location:

NOT GIVEN

mg/kg

Sample ID: TT - 12 1' (H000187-12)

DIEX GOZID	ıııg,	K9	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.8	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

ND

01/21/2020

Fax To: (575) 393-4388

Received:

Toluene*

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

1.95

97.4

96.9

96.0

Soil

2.00

2.00

6.00

Project Name:

DEV-19-009

NOT GIVEN

< 0.050

Sampling Condition:

Cool & Intact

Project Number: Project Location:

DEVON - THISTLE 44

Sample Received By:

Tamara Oldaker

RPD

3.12

2.86

2.76

2.53

Qualifier

Sample ID: TT - 13 1' (H000187-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00

Ethylbenzene* < 0.050 0.050 01/21/2020 ND 1.94 Total Xylenes* < 0.150 0.150 01/21/2020 ND 5.76 0.300 Total BTEX < 0.300 01/21/2020 ND

0.050

Surrogate: 4-Bromofluorobenzene (PID

94.7 %

73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					

Surrogate: 1-Chlorooctane

95.0 %

41-142

Surrogate: 1-Chlorooctadecane

96.2 %

37.6-147

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240

Fax To: (575) 393-4388

Received:

01/17/2020

Sampling Date:

01/17/2020

Reported:

01/22/2020

Sampling Type:

Soil

Project Name:

BTEX 8021B

DEV-19-009

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

DEVON - THISTLE 44

mg/kg

94.1 %

37.6-147

Project Location: NOT GIVEN

Sample ID: TT - 13 2' (H000187-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/22/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2020	ND	213	106	200	0.170	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	201	100	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	94.5 9	% 41-142	!						

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Relinquished By:

Sampler - UPS - Bus - Other:

3.600

Sample Condition
Cool Intact
Tyes Tyes

CHECKED BY:

Time: Date:

Received By:

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions	olutions	01 111E	MALYSIS REQUEST	
Project Manager: Bob Allen		P.O. #:		
Address: 703 East Clinton, PO Box 1613		Company: Same		
City: Hobbs State: NM	Zip: 88240			
Phone #: 575 397-0510 Fax #: 575	575 393-4388	Address:		
Project #: DEV-19-009 Project Owner:	7	City:	5)0	
Project Name: DEDON-Thist	IE 44	State: Zip:		
Project Location:		Phone #:	/8	
Sampler Name:		Fax#:		
FOR LAB USE ONLY	MATRIX	PRESERV, SAMPLING		
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PLEASE NOTE: L'ability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be firatied to the amount hald by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 20 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	any claim arising whether based in contract deemed waived unless made in writing and g without limitation, business interruptions,	t or tort, shall be firtled to the amount paid by the client for dready a the completion of dready after completion of loss of use, or loss of profits incurred by client, its subsiditions of the firms of the completion of the co	for the applicable	
afficiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	Cardinal, regardless of whether such daim	is based upon any of the above stated reasons or otherw	* - VS	
Reinquisned by:	Received by:	Fax Result:	esur: Lifes LiNo Additrione#:	2
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Sampler - UPS - Bus - Other:

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Sample Condition
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CHECKED BY:

Delivered By: (Circle One)

Relinquished By:

Date: Time:

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions	olutions	1211111111		
Bob Allen		P.O. #:		
Address: 703 East Clinton, PO Box 1613		Company: Same		
City: Hobbs State: NM	Zip: 88240			
Phone #: 575 397-0510 Fax #: 575 3	575 393-4388	Address:		
Project #: DEN-19-059 Project Owner:		City:	>	
Project Name:		State: Zip:		
Project Location:		Phone #:	6	
Sampler Name:	=	Fax #:	<i>"S</i>	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	OR (C)OMP. TAINERS NDWATER EWATER	ASE: OOL	PH (8)	
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PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within 20 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ny daim arising whether based in contra deamed waived unless made in writing a without limitation, business interruptions	ct or toft, shall be finited to the amount paid by the client nd received by Cardinal within 30 days after completion o , loss of use, or loss of profits incurred by client, its subs	t for the of the applicable	
Relinguished By: Date: Date: Received By: Received By:	Received By:	Phone Result:	ult: U Yes U No	No.
Xxxxx Tens	Manual !	REMARKS:		

Surr: Toluene-d8

Analytical ReportLab Order **2006158**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-2-V 2'

 Project:
 Devon Thistle 44H 20811857
 Collection Date: 6/1/2020 1:20:00 PM

 Lab ID:
 2006158-001
 Matrix: SOIL
 Received Date: 6/3/2020 9:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 200 60 mg/Kg 20 6/11/2020 1:26:56 AM 53015 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: **DJF** Gasoline Range Organics (GRO) ND 4.6 mg/Kg 1 6/6/2020 5:04:12 AM 52871 Surr: BFB 70-130 100 %Rec 1 6/6/2020 5:04:12 AM 52871 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) ND 9.5 mg/Kg 6/5/2020 6:51:58 PM 52874 Motor Oil Range Organics (MRO) ND 1 6/5/2020 6:51:58 PM 52874 47 mg/Kg Surr: DNOP 87.0 55.1-146 %Rec 6/5/2020 6:51:58 PM 52874 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: DJF ND 6/6/2020 5:04:12 AM 52871 Benzene 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 6/6/2020 5:04:12 AM 52871 Ethylbenzene ND 0.046 mg/Kg 1 6/6/2020 5:04:12 AM 52871 Xylenes, Total ND 0.092 mg/Kg 6/6/2020 5:04:12 AM 52871 Surr: 1,2-Dichloroethane-d4 98.9 70-130 %Rec 1 6/6/2020 5:04:12 AM 52871 Surr: 4-Bromofluorobenzene 95.2 70-130 %Rec 1 6/6/2020 5:04:12 AM 52871 Surr: Dibromofluoromethane 99.3 70-130 %Rec 1 6/6/2020 5:04:12 AM 52871

102

70-130

%Rec

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 0

6/6/2020 5:04:12 AM

52871

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Safety & Environmental Solutions Client Sample ID: SP-3-V 2'

Project: Devon Thistle 44H 20811857 Collection Date: 6/1/2020 2:00:00 PM Received Date: 6/3/2020 9:15:00 AM Lab ID: 2006158-002 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	6/11/2020 11:39:00 AM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/6/2020 5:33:28 AM	52871
Surr: BFB	103	70-130	%Rec	1	6/6/2020 5:33:28 AM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/5/2020 7:16:41 PM	52874
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/5/2020 7:16:41 PM	52874
Surr: DNOP	87.1	55.1-146	%Rec	1	6/5/2020 7:16:41 PM	52874
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	6/6/2020 5:33:28 AM	52871
Toluene	ND	0.049	mg/Kg	1	6/6/2020 5:33:28 AM	52871
Ethylbenzene	ND	0.049	mg/Kg	1	6/6/2020 5:33:28 AM	52871
Xylenes, Total	ND	0.098	mg/Kg	1	6/6/2020 5:33:28 AM	52871
Surr: 1,2-Dichloroethane-d4	99.7	70-130	%Rec	1	6/6/2020 5:33:28 AM	52871
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	6/6/2020 5:33:28 AM	52871
Surr: Dibromofluoromethane	95.5	70-130	%Rec	1	6/6/2020 5:33:28 AM	52871
Surr: Toluene-d8	103	70-130	%Rec	1	6/6/2020 5:33:28 AM	52871

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
- 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

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

Page 2 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

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CLIENT: Safety & Environmental Solutions Client Sample ID: SP-6-V 2'

 Project:
 Devon Thistle 44H 20811857
 Collection Date: 6/1/2020 9:55:00 AM

 Lab ID:
 2006158-003
 Matrix: SOIL
 Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	150	60	mg/Kg	20	6/11/2020 11:52:00 AM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/6/2020 6:02:57 AM	52871
Surr: BFB	99.3	70-130	%Rec	1	6/6/2020 6:02:57 AM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/5/2020 7:41:16 PM	52874
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/5/2020 7:41:16 PM	52874
Surr: DNOP	86.3	55.1-146	%Rec	1	6/5/2020 7:41:16 PM	52874
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	6/6/2020 6:02:57 AM	52871
Toluene	ND	0.048	mg/Kg	1	6/6/2020 6:02:57 AM	52871
Ethylbenzene	ND	0.048	mg/Kg	1	6/6/2020 6:02:57 AM	52871
Xylenes, Total	ND	0.097	mg/Kg	1	6/6/2020 6:02:57 AM	52871
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	1	6/6/2020 6:02:57 AM	52871
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	6/6/2020 6:02:57 AM	52871
Surr: Dibromofluoromethane	93.2	70-130	%Rec	1	6/6/2020 6:02:57 AM	52871
Surr: Toluene-d8	100	70-130	%Rec	1	6/6/2020 6:02:57 AM	52871

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 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-7-V 2'

Project: Devon Thistle 44H 20811857 Collection Date: 6/1/2020 10:15:00 AM Received Date: 6/3/2020 9:15:00 AM Lab ID: 2006158-004 Matrix: SOIL

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	150	60	mg/Kg	20	6/11/2020 12:04:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/6/2020 6:32:09 AM	52871
Surr: BFB	97.8	70-130	%Rec	1	6/6/2020 6:32:09 AM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/5/2020 8:05:46 PM	52874
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/5/2020 8:05:46 PM	52874
Surr: DNOP	87.9	55.1-146	%Rec	1	6/5/2020 8:05:46 PM	52874
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	6/6/2020 6:32:09 AM	52871
Toluene	ND	0.048	mg/Kg	1	6/6/2020 6:32:09 AM	52871
Ethylbenzene	ND	0.048	mg/Kg	1	6/6/2020 6:32:09 AM	52871
Xylenes, Total	ND	0.095	mg/Kg	1	6/6/2020 6:32:09 AM	52871
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	6/6/2020 6:32:09 AM	52871
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	6/6/2020 6:32:09 AM	52871
Surr: Dibromofluoromethane	102	70-130	%Rec	1	6/6/2020 6:32:09 AM	52871
Surr: Toluene-d8	103	70-130	%Rec	1	6/6/2020 6:32:09 AM	52871

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
- 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

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

Page 4 of 0

Analytical Report
Lab Order 2006158
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-8-V 2'

Project: Devon Thistle 44H 20811857 **Collection Date:** 6/1/2020 10:35:00 AM

Lab ID: 2006158-005 **Matrix:** SOIL **Received Date:** 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	6/11/2020 12:17:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/6/2020 7:01:38 AM	52871
Surr: BFB	101	70-130	%Rec	1	6/6/2020 7:01:38 AM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2020 8:30:11 PM	52874
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/5/2020 8:30:11 PM	52874
Surr: DNOP	87.8	55.1-146	%Rec	1	6/5/2020 8:30:11 PM	52874
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	6/6/2020 7:01:38 AM	52871
Toluene	ND	0.047	mg/Kg	1	6/6/2020 7:01:38 AM	52871
Ethylbenzene	ND	0.047	mg/Kg	1	6/6/2020 7:01:38 AM	52871
Xylenes, Total	ND	0.093	mg/Kg	1	6/6/2020 7:01:38 AM	52871
Surr: 1,2-Dichloroethane-d4	98.6	70-130	%Rec	1	6/6/2020 7:01:38 AM	52871
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	6/6/2020 7:01:38 AM	52871
Surr: Dibromofluoromethane	97.3	70-130	%Rec	1	6/6/2020 7:01:38 AM	52871
Surr: Toluene-d8	105	70-130	%Rec	1	6/6/2020 7:01:38 AM	52871

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 0

Project:

Analytical ReportLab Order **2006158**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-9-V 2'

Devon Thistle 44H 20811857 Collection Date: 6/1/2020 11:10:00 AM

Lab ID: 2006158-006 **Matrix:** SOIL **Received Date:** 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	150	60	mg/Kg	20	6/11/2020 12:29:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/6/2020 7:30:57 AM	52871
Surr: BFB	100	70-130	%Rec	1	6/6/2020 7:30:57 AM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/6/2020 8:22:23 AM	52911
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/6/2020 8:22:23 AM	52911
Surr: DNOP	84.4	55.1-146	%Rec	1	6/6/2020 8:22:23 AM	52911
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	6/6/2020 7:30:57 AM	52871
Toluene	ND	0.050	mg/Kg	1	6/6/2020 7:30:57 AM	52871
Ethylbenzene	ND	0.050	mg/Kg	1	6/6/2020 7:30:57 AM	52871
Xylenes, Total	ND	0.099	mg/Kg	1	6/6/2020 7:30:57 AM	52871
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	6/6/2020 7:30:57 AM	52871
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	6/6/2020 7:30:57 AM	52871
Surr: Dibromofluoromethane	98.8	70-130	%Rec	1	6/6/2020 7:30:57 AM	52871
Surr: Toluene-d8	104	70-130	%Rec	1	6/6/2020 7:30:57 AM	52871

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 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: TT-10-V 2'

 Project:
 Devon Thistle 44H 20811857
 Collection Date: 6/1/2020 12:00:00 PM

 Lab ID:
 2006158-007
 Matrix: SOIL
 Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	200	60	mg/Kg	20	6/11/2020 12:41:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/6/2020 3:32:29 PM	52871
Surr: BFB	103	70-130	%Rec	1	6/6/2020 3:32:29 PM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/6/2020 9:34:36 AM	52911
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/6/2020 9:34:36 AM	52911
Surr: DNOP	94.2	55.1-146	%Rec	1	6/6/2020 9:34:36 AM	52911
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	DJF
Benzene	ND	0.024	mg/Kg	1	6/6/2020 3:32:29 PM	52871
Toluene	ND	0.048	mg/Kg	1	6/6/2020 3:32:29 PM	52871
Ethylbenzene	ND	0.048	mg/Kg	1	6/6/2020 3:32:29 PM	52871
Xylenes, Total	ND	0.096	mg/Kg	1	6/6/2020 3:32:29 PM	52871
Surr: 1,2-Dichloroethane-d4	97.0	70-130	%Rec	1	6/6/2020 3:32:29 PM	52871
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	6/6/2020 3:32:29 PM	52871
Surr: Dibromofluoromethane	93.0	70-130	%Rec	1	6/6/2020 3:32:29 PM	52871
Surr: Toluene-d8	107	70-130	%Rec	1	6/6/2020 3:32:29 PM	52871

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

- 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 0

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-11-V 2'

 Project:
 Devon Thistle 44H 20811857
 Collection Date: 6/1/2020 12:15:00 PM

 Lab ID:
 2006158-008
 Matrix: SOIL
 Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	6/11/2020 12:54:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE	=				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/6/2020 4:02:16 PM	52871
Surr: BFB	102	70-130	%Rec	1	6/6/2020 4:02:16 PM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/6/2020 9:58:40 AM	52911
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/6/2020 9:58:40 AM	52911
Surr: DNOP	126	55.1-146	%Rec	1	6/6/2020 9:58:40 AM	52911
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	6/6/2020 4:02:16 PM	52871
Toluene	ND	0.047	mg/Kg	1	6/6/2020 4:02:16 PM	52871
Ethylbenzene	ND	0.047	mg/Kg	1	6/6/2020 4:02:16 PM	52871
Xylenes, Total	ND	0.094	mg/Kg	1	6/6/2020 4:02:16 PM	52871
Surr: 1,2-Dichloroethane-d4	95.9	70-130	%Rec	1	6/6/2020 4:02:16 PM	52871
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	6/6/2020 4:02:16 PM	52871
Surr: Dibromofluoromethane	95.9	70-130	%Rec	1	6/6/2020 4:02:16 PM	52871
Surr: Toluene-d8	108	70-130	%Rec	1	6/6/2020 4:02:16 PM	52871

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

ple pH Not In Range
Page 8 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions Client Sample ID: TT-12-V 2'

 Project:
 Devon Thistle 44H 20811857
 Collection Date: 6/1/2020 1:00:00 PM

 Lab ID:
 2006158-009
 Matrix: SOIL
 Received Date: 6/3/2020 9:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	61	mg/Kg	20	6/11/2020 1:06:00 PM	53020
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/6/2020 4:32:12 PM	52871
Surr: BFB	106	70-130	%Rec	1	6/6/2020 4:32:12 PM	52871
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/6/2020 10:22:49 AM	52911
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/6/2020 10:22:49 AM	52911
Surr: DNOP	101	55.1-146	%Rec	1	6/6/2020 10:22:49 AM	52911
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	6/6/2020 4:32:12 PM	52871
Toluene	ND	0.047	mg/Kg	1	6/6/2020 4:32:12 PM	52871
Ethylbenzene	ND	0.047	mg/Kg	1	6/6/2020 4:32:12 PM	52871
Xylenes, Total	ND	0.094	mg/Kg	1	6/6/2020 4:32:12 PM	52871
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	6/6/2020 4:32:12 PM	52871
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	6/6/2020 4:32:12 PM	52871
Surr: Dibromofluoromethane	98.6	70-130	%Rec	1	6/6/2020 4:32:12 PM	52871
Surr: Toluene-d8	110	70-130	%Rec	1	6/6/2020 4:32:12 PM	52871

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

- 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 0

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109



May 11, 2020

Dave Boyer Safety & Environmental Solutions PO Box 1613 Hobbs, NM 88241

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

RE: Devon Thistle 44H OrderNo.: 2005118

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 22 sample(s) on 5/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-001

Matrix: SOIL

Collection Date: 4/24/2020 10:00:00 AM

Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 14 Surface North Wall

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	60	mg/Kg	20	5/7/2020 6:29:03 PM	52330

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-002

Matrix: SOIL

Collection Date: 4/24/2020 10:10:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 14 1' North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	60	mg/Kg	20	5/7/2020 8:57:59 PM	52340

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

- 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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-003

Matrix: SOIL

Collection Date: 4/24/2020 10:15:00 AM Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 15 Surface North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	220	60	mg/Kg	20	5/7/2020 10:00:00 PM	52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-004

Matrix: SOIL

Collection Date: 4/24/2020 10:25:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 15 1' North Wall

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 ND
 60
 mg/Kg
 20
 5/7/2020 10:37:14 PM
 52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-005

Matrix: SOIL

Collection Date: 4/24/2020 10:30:00 AM

Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 16 Surface North Wall

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	260	60	mg/Kg	20	5/7/2020 10:49:38 PM	A 52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-006

Matrix: SOIL

Collection Date: 4/24/2020 10:45:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 16 1' North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	60	mg/Kg	20	5/7/2020 11:02:03 PM	52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-007

Matrix: SOIL

Collection Date: 4/24/2020 10:55:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 17 Surface North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	61	60	mg/Kg	20	5/7/2020 11:14:28 PM	<i>I</i> 52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-008

Matrix: SOIL

Collection Date: 4/24/2020 11:00:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 17 1' North Wall

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	180	60	mg/Kg	20	5/7/2020 11:26:53 PM	M 52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

2005118-009 Lab ID:

Matrix: SOIL

Collection Date: 4/24/2020 11:10:00 AM Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 18 Surface South Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	60	mg/Kg	20	5/8/2020 12:04:06 AM	52340

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
- % Recovery outside of range due to dilution or matrix

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

Page 9 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Devon Thistle 44H **Project:**

Lab ID: 2005118-010 Matrix: SOIL

Client Sample ID: AH- 18 1' South wall **Collection Date:** 4/24/2020 11:20:00 AM

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	60	mg/Kg	20	5/8/2020 12:16:31 AM	1 52340

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
- % Recovery outside of range due to dilution or matrix

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

Page 10 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-011

Matrix: SOIL

Collection Date: 4/24/2020 11:25:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 19 Surface South Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	440	60	mg/Kg	20	5/8/2020 12:28:55 AN	<i>I</i> 52340

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

- 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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-012

Matrix: SOIL

Collection Date: 4/24/2020 11:35:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 19 1' South Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	180	59	mg/Kg	20	5/8/2020 12:41:20 AM	A 52340

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

- 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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-013 Matrix: SOIL

Collection Date: 4/24/2020 11:40:00 AM

Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 20 Surface South Wall

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	440	60	mg/Kg	20	5/8/2020 12:53:44 AM	A 52340

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
- 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

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

Page 13 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-014

Matrix: SOIL

Collection Date: 4/24/2020 11:55:00 AM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 20 1' South Wall

L Qual Units DF Date Analyzed Ba

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 170
 60
 mg/Kg
 20
 5/8/2020 1:06:08 AM
 52340

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 14 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-015

Matrix: SOIL

Collection Date: 4/24/2020 12:05:00 PM Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 21 Surface South Wall

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	60	60	mg/Kg	20	5/8/2020 1:18:33 AM	52340

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-016

Matrix: SOIL

Collection Date: 4/24/2020 12:10:00 PM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 21 1' South Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	180	60	mg/Kg	20	5/8/2020 1:30:57 AM	52340

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

- 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 16 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-017

Matrix: SOIL

Collection Date: 4/24/2020 12:20:00 PM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 22 Surface West Wall

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	440	60	mg/Kg	20	5/8/2020 1:43:22 AM	52340

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

- 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 17 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-018

Matrix: SOIL

Collection Date: 4/24/2020 12:35:00 PM **Received Date:** 5/5/2020 8:59:00 AM

Client Sample ID: AH- 22 1' West Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	60	mg/Kg	20	5/8/2020 1:55:47 AM	52340

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

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

Page 18 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-019

Matrix: SOIL

Collection Date: 4/24/2020 12:40:00 PM Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 23 Surface North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	ND	59	mg/Kg	20	5/8/2020 1:33:51 PM	52349

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Devon Thistle 44H **Project:**

Lab ID: 2005118-020 Matrix: SOIL

Collection Date: 4/24/2020 12:55:00 PM Received Date: 5/5/2020 8:59:00 AM

Client Sample ID: AH- 23 1' North Wall

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	190	60	mg/Kg	20	5/8/2020 2:10:53 PM	52349

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
- % Recovery outside of range due to dilution or matrix

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

Page 20 of 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-021

Matrix: SOIL

Collection Date: 4/24/2020 2:30:00 PM

Client Sample ID: AH- 24 Surface B/G

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	ND	60	mg/Kg	20	5/8/2020 2:23:14 PM	52349

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 23

Date Reported: 5/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Project: Devon Thistle 44H

Lab ID: 2005118-022

Matrix: SOIL

Client Sample ID: AH- 24 1' B/G Collection Date: 4/24/2020 2:35:00 PM

Received Date: 5/5/2020 8:59:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: JMT
Chloride	ND	60	mg/Kg	20	5/8/2020 2:35:35 PM	52349

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 23

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0#: 2005118 11-May-20

WO#:

Client: Safety & Environmental Solutions

Project: Devon Thistle 44H

Sample ID: MB-52330 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52330 RunNo: 68738

Prep Date: 5/7/2020 Analysis Date: 5/7/2020 SeqNo: 2378180 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52330 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52330 RunNo: 68738

Prep Date: 5/7/2020 Analysis Date: 5/7/2020 SeqNo: 2378181 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.7 90 110

Sample ID: MB-52340 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 52340 RunNo: 68738

Prep Date: 5/7/2020 Analysis Date: 5/7/2020 SeqNo: 2378215 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52340 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52340 RunNo: 68738

Prep Date: 5/7/2020 Analysis Date: 5/7/2020 SeqNo: 2378216 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.7 90 110

Sample ID: MB-52349 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **52349** RunNo: **68767**

Prep Date: 5/8/2020 Analysis Date: 5/8/2020 SeqNo: 2379373 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-52349 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 52349 RunNo: 68767

Prep Date: 5/8/2020 Analysis Date: 5/8/2020 SegNo: 2379374 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

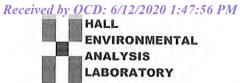
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 23 of 23



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109

Sample Log-In Check List

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

Client Name:	Safety Env Solutions	Work Order Number:	200	5118			RcptNo:	1
Received By:	Emily Mocho	5/5/2020 8:59:00 AM						
Completed By:	Desiree Dominguez	5/5/2020 10:16:24 AM			1-0			
Reviewed By:	LB	5/5/20				_		
Chain of Cus	<u>tody</u>							
1. Is Chain of C	ustody sufficiently complete	?	Yes	V	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
Log In								
	npt made to cool the sample	es?	Yes	~	No		NA 🗌	
4. Were all samp	ples received at a temperatu	ure of >0° C to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	~	No			
6. Sufficient sam	pple volume for indicated tes	st(s)?	Yes	V	No			
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes	V	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗆	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes		No		NA 🗹	$ \overline{} $
10. Were any san	mple containers received bro	oken?	Yes		No	V \	# of preserved	-10-1-
	ork match bottle labels? ancies on chain of custody)		Yes	V	No		bottles checked for pH:	12 unless noted)
	correctly identified on Chain	of Custody?	Yes	V	No		Adjusted?	
13. Is it clear what	t analyses were requested?		Yes	V	No			
	ng times able to be met? ustomer for authorization.)		Yes	V	No		Checked by:	
Special Handl	ing (if applicable)							
	otified of all discrepancies w	ith this order?	Yes		No		NA 🗹	
Person	Notified:	Date:	-			_		
By Who	om:	Via:	eM	ail 🗍	Phone	Fax	☐ In Person	
Regard	ing:					-		
Client Ir	nstructions:		_					
16. Additional re	marks:							
17. Cooler Infor Cooler No	Temp °C Condition	Seal Intact Seal No S Not Present	eal D	ate	Signed E	Зу		

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From: <u>Bratcher, Mike, EMNRD</u>

To: Bynum, Tom (Contract); Venegas, Victoria, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD;

Griswold, Jim, EMNRD; Eads, Cristina, EMNRD; Marcus, Ramona, EMNRD

Cc: Robison, Jason; Davis, Amanda; Mathews, Wesley; Carrasco, Lupe; DeHoyos, Kendra; Bob Allen; Kathy Purvis

Subject: RE: [EXTERNAL] RE: Rejection for work plan on incidents NRM2003159278 & NAB1905153070

Date: Tuesday, May 12, 2020 7:43:49 AM

Attachments: Procedures For Implementation of the Spill Rule.pdf

RE: Devon Thistle Unit 44H * 30-025-41032 * N-33-23s-33e

Release 1 ID: nAB1905153070 * DOR: 02/05/2019 Release 2 ID: nRM2003159278* DOR: 11/24/2019

Mr. Bynum,

I would like to preface this response by saying, one of the Division's goals is to bring some much needed consistency to the entire remedial process. The idea is to allow industry to know what is expected for remedial projects and provide a road map for regulatory reviewers to follow during the review process. A proposal submitted to the state and reviewed by any regulatory reviewer in the state, should yield the same response.

This project encompasses two releases at this well site. The incident numbers and dates of release have been listed above.

• Please note both of these release incidents are currently in violation of 19.15.29.11 A.

This portion of the spill rule requires site characterization and a remediation proposal be submitted to the Division within 90 days of the discovery of the release, or site characterization with a closure report be submitted to the Division within 90 days of discovery of the release. The first release is well over one year out of compliance, with the second release almost 90 days past compliance requirements. Provisions are available to request extensions to these time frames, for good cause, but Devon chose not to exercise this option with either release.

Aside from the compliance issues, <u>it is important to note here that a site characterization is required for either option chosen</u> (site characterization with remediation proposal, or site characterization with closure report).

Site characterization includes horizontal definition of the impacted soil. Devon has proposed using "visual identification" to determine the horizontal extent of impact. This is not a method that the Division will accept for making this determination. This method is especially not adequate in this instance since there are two releases being investigated and one of them is over a year old. There is no indication in the proposal as to whether both releases followed the same flow path or not. If both releases followed the same flow path, and this flow path is what has been outlined in yellow on the drone image of the well site, based on this image, the Division requests Devon investigate the area directly adjacent to the tank battery on the east side. The staining visible in this area looks much the same as the area that has been outlined in yellow, and identified as the area of concern. Devon has also proposed determining horizontal characterization by comparing sample data from outside the visually identified area of impact, to sample data from inside the visually identified area of impact.

This method is also not acceptable for reasons including but not limited to, it's reliance on visual identification of the impact.

The acceptable method for determining horizontal extent is with data. Visual identification may be viable in estimating the release volume for initial reporting purposes, but for characterization, data will be required. To determine the horizontal extent, a "clean" sample is required. For the sake of consistency, the Division will consider a sample "clean" if it meets the more stringent requirements listed in Table 1. For chloride values, natural background levels will be considered. Also, for the initial horizontal characterization, these samples are typically obtained in upper portion of the soil profile. Side wall samples are utilized during the remediation phase of the project to insure adequate excavation has been performed, and, to insure horizontal definition has been defined at depth.

Mr. Allen has argued that delineation outside of the visually identified area of concern may lead to discovery of impacted materials not associated with the release being investigated. In the event this does occur, the responsible party is also responsible for remediation of these impacts. This is especially applicable here, since Devon has been the sole operator of this well site.

Depth to groundwater at this site has not been determined:

The remediation proposal contains one sentence in defining depth to groundwater. It states:

"Based on the trend map and the USGS web interface, depth to groundwater in this area is over 100 feet."

The proposal contains a screen shot of the Chevron/Texaco Trend Map and a USGS data sheet on one water well that is approximately 2.5 miles from the release site, to the north east. The distance to this water well from the release site should have been clearly stated in the proposal. It was not. The trend map (Chevron/Texaco 2004) is not an acceptable means for determining depth to groundwater. It is a tool that may have some value as a quick reference guide, however, the Division does not consider it factual evidence of depth to ground water. The Division also notes that there exists USGS and OSE data on water wells approximately 1.5 miles from the release site to the south east. This data indicates groundwater may be encountered at less than 50' from surface, with the potential to be less than 25' from surface. Why was this data not considered or at least referenced, since it is closer to the release site?

19.15.29.11 NMAC is the portion of the spill rule that requires site assessment/characterization. In regard to depth to ground water, if the exact depth to ground water is unknown, the responsible party must provide a reasonable determination of probable depth to ground water. The rule lists several methods to be utilized in making this determination, but the method used must be as approved by the appropriate division district office. The rule also requires the responsible party to identify all known water sources within one half mile of the release.

The Division would prefer to have some standardization, again for the sake of consistency, as to what is expected when determining depth to ground water. Industry will know what is expected and reviewers will know what to look for. This eliminates leaving this type decision up to each reviewer. If a single water well is going to be used to make this determination, the Division will require that well be within one half mile of the release, otherwise, an alternative method will be required. The

only way to make an exact determination in the event data is severely lacking, will be to advance an exploratory boring. The responsible party may choose to remediate to the more stringent levels listed in Table 1 in lieu of determining depth to groundwater.

This remediation proposal has been denied due to an incomplete characterization of impact, and an inadequate investigation into the potential depth to ground water at the release site.

This denial remains in effect. At this time, the Division requests that Devon resubmit a complete site characterization, along with either a remediation proposal, or a closure request, based on site characterization criteria, which includes a determination of the depth to ground water at this site. This submittal is due not later than thirty (30) days from the date of this correspondence.

Please review the applicable portions of 19.15.29 NMAC as well as OCD guidance document titled "Procedures for Implementation of the Spill Rule". Both documents are available on the OCD web site. I have attached the guidance document for convenience. Please see paragraph IX of this document regarding determining depth to ground water.

Devon's cooperation in this matter is greatly appreciated.

Best Regards,

Mike Bratcher NMOCD NM South 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108 575~626~0857 Cell

Hobbs Office: 1625 North French Drive Hobbs NM 88240 575-393-6161

From: Bynum, Tom (Contract) <Tom.Bynum@dvn.com>

Sent: Friday, May 1, 2020 3:04 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Eads, Cristina, EMNRD <Cristina.Eads@state.nm.us>; Marcus, Ramona, EMNRD <Ramona.Marcus@state.nm.us>

Cc: Robison, Jason <Jason.Robison@dvn.com>; Davis, Amanda <Amanda.Davis@dvn.com>; Mathews, Wesley <Wesley.Mathews@dvn.com>; Carrasco, Lupe <Lupe.Carrasco@dvn.com>; DeHoyos, Kendra <Kendra.DeHoyos@dvn.com>; Bob Allen <ballen@sesi-nm.com>; Kathy Purvis <office2@sesi-nm.com>

Subject: [EXT] Re: [EXTERNAL] RE: Rejection for work plan on incidents NRM2003159278 & NAB1905153070

Mr. Bratcher,

Thanks to you and your team for your time and consideration, we look forward to the Division's response and guidance.

Thank you,

Tom Bynum 580-748-1613

From: Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>

Sent: Friday, May 1, 2020 2:58:28 PM

Cc: Robison, Jason < <u>Jason.Robison@dvn.com</u>>; Davis, Amanda < <u>Amanda.Davis@dvn.com</u>>; Mathews, Wesley < <u>Wesley.Mathews@dvn.com</u>>; Carrasco, Lupe < <u>Lupe.Carrasco@dvn.com</u>>; DeHoyos, Kendra < <u>Kendra.DeHoyos@dvn.com</u>>; Bob Allen < <u>ballen@sesi-nm.com</u>>; Kathy Purvis < <u>office2@sesi-nm.com</u>>

Subject: [EXTERNAL] RE: Rejection for work plan on incidents NRM2003159278 & NAB1905153070

Mr. Bynum,

The Division will consider the issues Devon has presented and will be in touch once we have had time to evaluate the concerns Devon has expressed. I would not expect to have a determination until sometime next week at the earliest.

Devon's patience in this matter is greatly appreciated.

Best Regards,

Mike Bratcher NMOCD NM South 811 South First Street Artesia, NM 88210 575-748-1283 Ext 108 575-626-0857 Mobile

1625 North French Drive Hobbs, NM 88240 575-393-6161

AMERICA STRONG

From: Bynum, Tom (Contract) < <u>Tom.Bynum@dvn.com</u>>

Sent: Friday, May 1, 2020 12:30 PM

To: Venegas, Victoria, EMNRD <<u>Victoria.Venegas@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Billings, Bradford, EMNRD <<u>Bradford.Billings@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Griswold, Jim, EMNRD <<u>Jim.Griswold@state.nm.us</u>>; Eads, Cristina, EMNRD <<u>Cristina.Eads@state.nm.us</u>>; Marcus, Ramona, EMNRD <<u>Ramona.Marcus@state.nm.us</u>>

Cc: Robison, Jason < <u>Jason.Robison@dvn.com</u>>; Davis, Amanda < <u>Amanda.Davis@dvn.com</u>>; Mathews, Wesley < <u>Wesley.Mathews@dvn.com</u>>; Carrasco, Lupe < <u>Lupe.Carrasco@dvn.com</u>>; DeHoyos, Kendra < <u>Kendra.DeHoyos@dvn.com</u>>; Bob Allen < <u>ballen@sesi-nm.com</u>>; Kathy Purvis < <u>office2@sesi-nm.com</u>>

Subject: [EXT] Rejection for work plan on incidents NRM2003159278 & NAB1905153070

Dear Victoria,

After much discussion within our team and with our consulting firm, we would like to express a couple more concerns regarding the rejection of the remediation plan for the incidents on the Thistle Unit 44H. Incident #s are NRM2003159278 and NAB1905153070.

In the matter of the "depth to ground water determination:"

• 19.15.29.11 does not mention water wells no further than ½ mile from the site, and data no more than 25 years old, and providing well construction information. Devon strives to stay compliant with regulations, however, those are prescriptive protocols that are not listed in the regulation for the general public to follow. The consultant on this project used a reasonable determination based on published well data from the US Geological Service.

Copied from your response in the previous email:

Please, see 19.15.29.11 SITE ASSESSMENT/CHARACTERIZATON: Depth to ground water.
 The responsible party must determine the depth to ground water where the release occurred. If the exact depth to ground water is unknown, the responsible party must provide a reasonable determination of probable ground water depth using data generated by numeric models, cathodic well lithology, water well data, published information or other tools as approved by the appropriate division district office. If the responsible party uses water well data, the responsible party must provide all pertinent well information.

If the OCD still does not agree with our initial determination, then we would like to utilize a method of "triangulation" in order to determine our depth to ground water in this case. We would do this by combining water well data from wells that surround this incident's location. This would provide more than a reasonable determination of the ground water depth in the area of these releases. Would the OCD agree with this method?

In the matter of "horizontal delineation:"

We're confused in the ambiguity of the recommended remediation action level for horizontal delineation. Horizontal and vertical delineation are specifically addressed in 19.15.29.11 (A)(5) (b) "the responsible party must delineate the release horizontally and vertically using Table I of 19.15.29.12 NMAC constituents"... The remediation plan clearly shows vertical delineation on pad to less than 20,000 mg/kg however it does not indicate a clear sidewall sample. It is

hard to make the argument for approval without a sidewall sample however based on the citation the sample should meet the constraints of Table 1.

Copied from your response in the previous email:

• Samples can be collected during the remediation process. In respect to horizontal delineation, it has not been completed. While vertical definition of contamination that may be acceptable is almost exclusively driven by depth to water, as determined, and as driven by Table I in the spill rule, horizontal definition if different. The edges (horizontal definition) of a liquid release must be determined as well. The only value for determination of horizontal impact are derived by either "background" value as determined appropriate to Rule 29, or, for chloride, 600 mg/kg in soils. Therefore, horizontal soils delineation for chloride should be 600 mg/kg (again, or background) for all liquid releases, either on or off production pad. It is conceivable that in determining the horizontal extent of chloride that the edge of the production pad may be encountered, if last sample taken on pad limit, samples(s) must be obtained off pad to determine extent of release. If horizontal delineation samples on pad eventually reach a mechanical barrier, (such as pipeline or battery) sample(s) should be obtained as near as possible on the linear opposite side of said barrier and as close as possible to the barrier.

It is conceivable that a liquid release may occur with, for example, a surface soil chloride of 19,000 mg/Kg, and if it is reliably determined that groundwater is over 101 feet below ground surface, then that value may stand as a vertical definition, but nonetheless, the horizontal value(s) for lateral extent of liquid release would still, of Rule 29 necessity, be 600 mg/Kg chloride or less. This would be inclusive of both "on-pad" of "off-pad" release area. The above if laboratory data driven, not just reported visual extent of a liquid release or calculated and reported release volumes. As indicated in the spill rule, a scaled map with horizontal and vertical definition of actual laboratory values is required. Generally, the top one foot sample suffices for immediate horizontal evaluation and deeper contamination would likely be identified during actual remediation.

We would have no problem at all giving you the full horizontal delineation of these releases if we could be granted approval to start on the remediation. This would allow us to gather sidewall samples during the excavation process that would be the most accurate in obtaining the true horizontal extent of these releases. We are currently working on gathering more samples here for the purpose of having full delineation, as well as gathering a background sample or two to help us be as accurate as possible to what our closure criteria will be.

Thank you,

TOM BYNUM EHS CONTRACTOR 580-748-1613

Devon - Internal

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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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAB1905153070
District RP	1RP-5372
Facility ID	
Application ID	pAB1905151532

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

NDETERMINED 124 (ft bgs)
☐ Yes ⊠ No
☐ Yes ⊠ No
Yes No
☐ Yes ⊠ No
Yes No
☐ Yes ⊠ No
Yes No
☐ Yes ⊠ No
☐ Yes ⊠ No
☐ Yes ⊠ No
☐ Yes ⊠ No
☐ Yes ⊠ No
al extents of soil

Received by OCD: 6/12/2020 1:47:56 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 142 of 146
ncident ID	nAB1905153070
District RP	1RP-5372
acility ID	

Application ID

pAB1905151532

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and

regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Tom Bynum Title: EHS Consultant		
Signature: 70m Bynum Date: 6/12/2020		
email: tom.bynum@dvn.com Telephone: 575-748-0176		
OCD Only		
Received by: Date:		

Page 143 of 146

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Incident ID	nAB1905153070
District RP	1RP-5372
Facility ID	
Application ID	pAB1905151532

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
☐ Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human hea	alth, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
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email: tom.bynum@dvn.com	Telephone: 575-748-0176			
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of	of Approval			
Signature:	Date:			

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2003159278
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	UNDETERMINED 124 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☐ Boring or excavation logs ☐ Photographs including date and GIS information ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody 		

Received by OCD: 6/12/2020 1:47:56 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page	145	of	<i>146</i>
 			1

Incident ID	NRM2003159278
District RP	
Facility ID	
Application ID	

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Received by OCD: 6/12/2020 1:47:56 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

Page 146 of 146

Incident ID	NRM2003159278
District RP	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
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Signature:	Date:		