Devon Energy Production Company
Belgian Shire CTB

Closure Report
U/L H, Section 22, T25S, R31E
Eddy County, New Mexico
NAB1708241432
2RP-4151

September 19, 2020

Prepared for:

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

By:

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

Company Contacts

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

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform a site assessment at the Belgian Shire CTB concerning a 10.5 bbls produced water release on the East side of the location. According to the C-141, a water transfer pump was being utilized for the first time during which time it was discovered that a plug on the pump was missing. It was also discovered that a ballon valve was leaking as well. Both the plug and valve issues were resolved and a vacuum truck recovered 10 bbls of produced water. This site is situated in Eddy County, Section 22, Township 25S, and Range 31E. The initial C-141 erroneously listed the location of the release in Section 15, but that is the location of the well, not the release.

Devon had initially contracted Hungry Horse to delineate and clean up the spill. A workplan was created and submitted by Hungry Horse to NMOCD, but was later denied. It was unclear to Devon at this time if Hungry Horse had ever followed up to revise and complete the workplan; therefore, Devon contacted SESI personnel to re-evaluate the leak area.

SESI personnel performed an assessment of the site in March of 2020 based on generator knowledge of the leak location and guidance from the denied Hungry Horse workplan. SESI personnel mapped the leak and performed delineation.

Surface and Ground Water

Based on the NMOCD Oil and Gas map included in this report, surface water or remnants thereof appear to be present within 350 ft of this release. The New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be between 325’ and 350’ bgs; however, since no wells less than 25 years old and less than a half mile away are known to be present, SESI will delineate this release to the most stringent criteria established by NMOCD.

Characterization

On March 25, 2020, SESI personnel performed sampling to determine vertical extent of the release. SESI advanced 2 auger holes within the leak area. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon Energy Belgian Shire CTB Soil Sample Results: Hall Environmental Laboratories 3/25/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH1 @ SURFACE	**740**	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ SURFACE	**1100**	ND	ND	ND	ND	ND	ND	ND	ND

Based on these results, and the newly discovered knowledge that horizontal extent would need to be established as well, SESI returned the release site to obtain both vertical and horizontal delineation. In June of 2020, SESI advance auger holes at the same two places the March samples were taken, at depths of one foot and two feet to establish vertical extent and advanced an additional four auger holes at the cardinal points to establish horizontal extent. The samples were properly packaged and preserved and sent to Hall Environmental Laboratories for analyzation. The results of the testing are captured in the summary below:

Devon Energy Belgian Shire CTB Soil Sample Results: Hall Environmental Laboratories 6/12/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
AH1 @ 1'	**440**	ND	ND	ND	ND	ND	ND	ND	ND
AH1 @ 2'	**170**	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ 1'	**240**	ND	ND	ND	ND	ND	ND	ND	ND
AH2 @ 2'	**170**	ND	ND	ND	ND	ND	ND	ND	ND
HORIZONTAL EXTENT SAMPLES									
North-H	**230**	ND	ND	ND	ND	ND	ND	ND	ND
South-H	ND	ND	ND	ND	ND	ND	ND	ND	ND
East-H	**82**	ND	ND	ND	ND	ND	ND	ND	ND
West-H	**140**	ND	ND	ND	ND	ND	ND	ND	ND

It was determined after reviewing the results of the samples that horizontal and vertical extent had been achieved and a workplan could be performed.

Remediation

Based on the findings of the sampling events, SESI, determined the best course of action was to excavate the contaminated soil to a depth of one foot. In July of 2020, approximately 540 ft3 of contaminated material was removed via shovel and backhoe. The contaminated soil was disposed of in a NMOCD-approved landfill.

Upon excavation completion, six confirmation samples were taken to ensure successful remediation efforts had been completed. The samples were properly preserved and packaged then sent to Hall Laboratories for analyzation. The results of the sampling are captured in the table below.

Devon Energy Belgian Shire CTB Soil Sample Results: Hall Environmental Laboratories 7/6/20									
SAMPLE ID	**Chloride**	**GRO**	**DRO**	**EXT DRO**	**Benzene**	**Toluene**	**Ethyl benzene**	**Total Xylenes**	**Total BTEX**
SP1 @ BOTTOM	**140**	ND	ND	ND	ND	ND	ND	ND	ND
SP2 @ BOTTOM	**140**	ND	ND	ND	ND	ND	ND	ND	ND
North,SW	**150**	ND	ND	ND	ND	ND	ND	ND	ND
South,SW	**100**	ND	ND	ND	ND	ND	ND	ND	ND
East, SW	**110**	ND	ND	ND	ND	ND	ND	ND	ND
West, SW	**290**	ND	ND	ND	ND	ND	ND	ND	ND

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

Closure Request

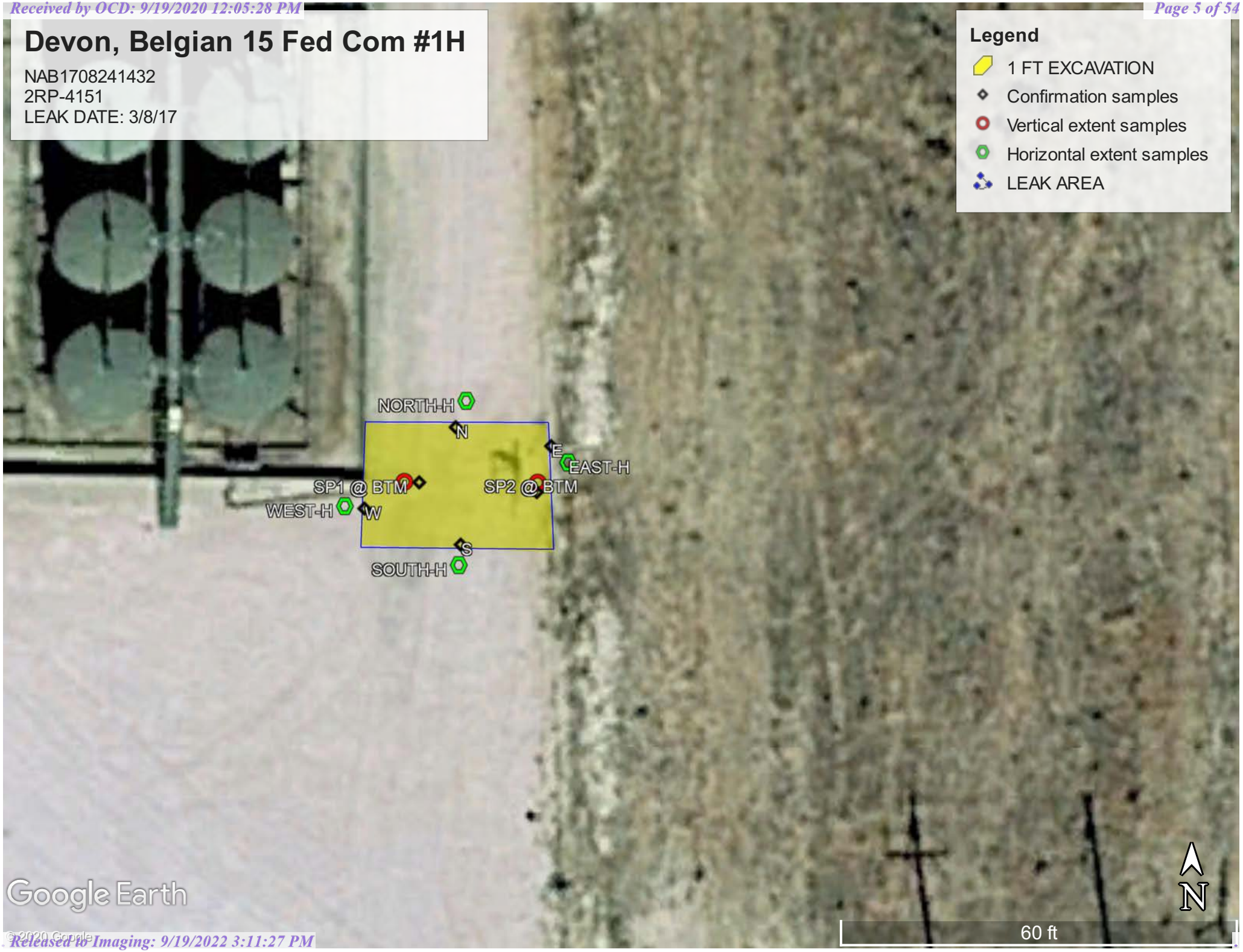
Based on the confirmation and horizontal sample results, SESI believes the release area to be properly remediated according to the closure criteria set forth in Table I of the Spill Rule 19.15.29 NMAC. Therefore, SESI, on behalf of Devon respectfully requests closure of this release. Supplemental information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

Supplemental Documentation for Closure

Map of Release with sample locations
Photos of remediation
NMOCD Oil and Gas Map
BLM Cave Karst Map
FEMA Floodplain Map
Laboratory Analysis
C-141, pages 3-6

Devon, Belgian 15 Fed Com #1H

NAB1708241432
2RP-4151
LEAK DATE: 3/8/17




Local:Jul 6, 2020 at 2:21:53 PM MDT
+32.116604,-103.757714
150° SE
Altitude:1028.7meter
Speed:5.9km/h


Local:Jul 6, 2020 at 2:22:28 PM MDT
+32.116604,-103.757714
142° SE
Altitude:1028.0meter
Speed:3.3km/h


Local:Jul 6, 2020 at 2:21:17 PM MDT
+32.116509,-103.757760
14° N
Altitude:1030.6meter
Speed:2.3km/h

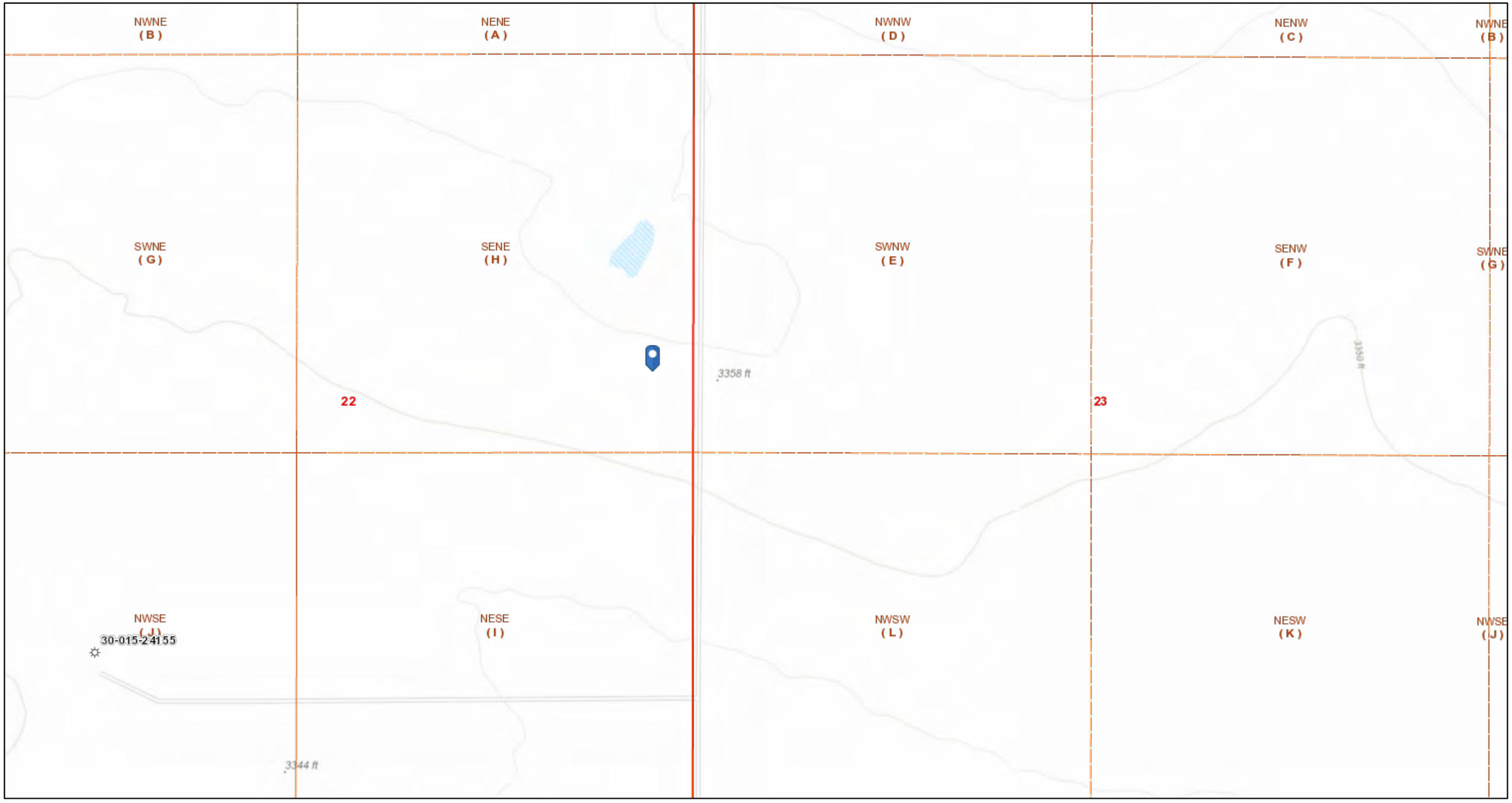

Local:Jul 6, 2020 at 2:22:05 PM MDT
+32.116604,-103.757714
164° S
Altitude:1028.5meter
Speed:3.5km/h


Local:Jul 7, 2020 at 1:26:25 PM MDT
+32.116564,-103.758145
168° S
Altitude:1026.7meter
Speed:4.9km/h


Local:Jul 6, 2020 at 2:22:35 PM MDT
+32.116604,-103.757714
204° SE
Altitude:1028.0meter
Speed:3.3km/h


Local:Jul 7, 2020 at 1:27:47 PM MDT
+32.116620,-103.757710
189° S
Altitude:1024.0meter
Speed:2.2km/h

Devon, Belgian Shire CTB



9/3/2020, 9:15:40 AM

1:4,514

0 0.05 0.1 0.19 mi

0 0.07 0.15 0.3 km

Wells - Large Scale

- undefined
- Miscellaneous
- CO2, Active
- CO2, Cancelled
- CO2, New
- CO2, Plugged
- CO2, Temporarily Abandoned
- Gas, Active
- Gas, Cancelled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active
- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled
- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New
- Salt Water Injection, Plugged
- Salt Water Injection, Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New

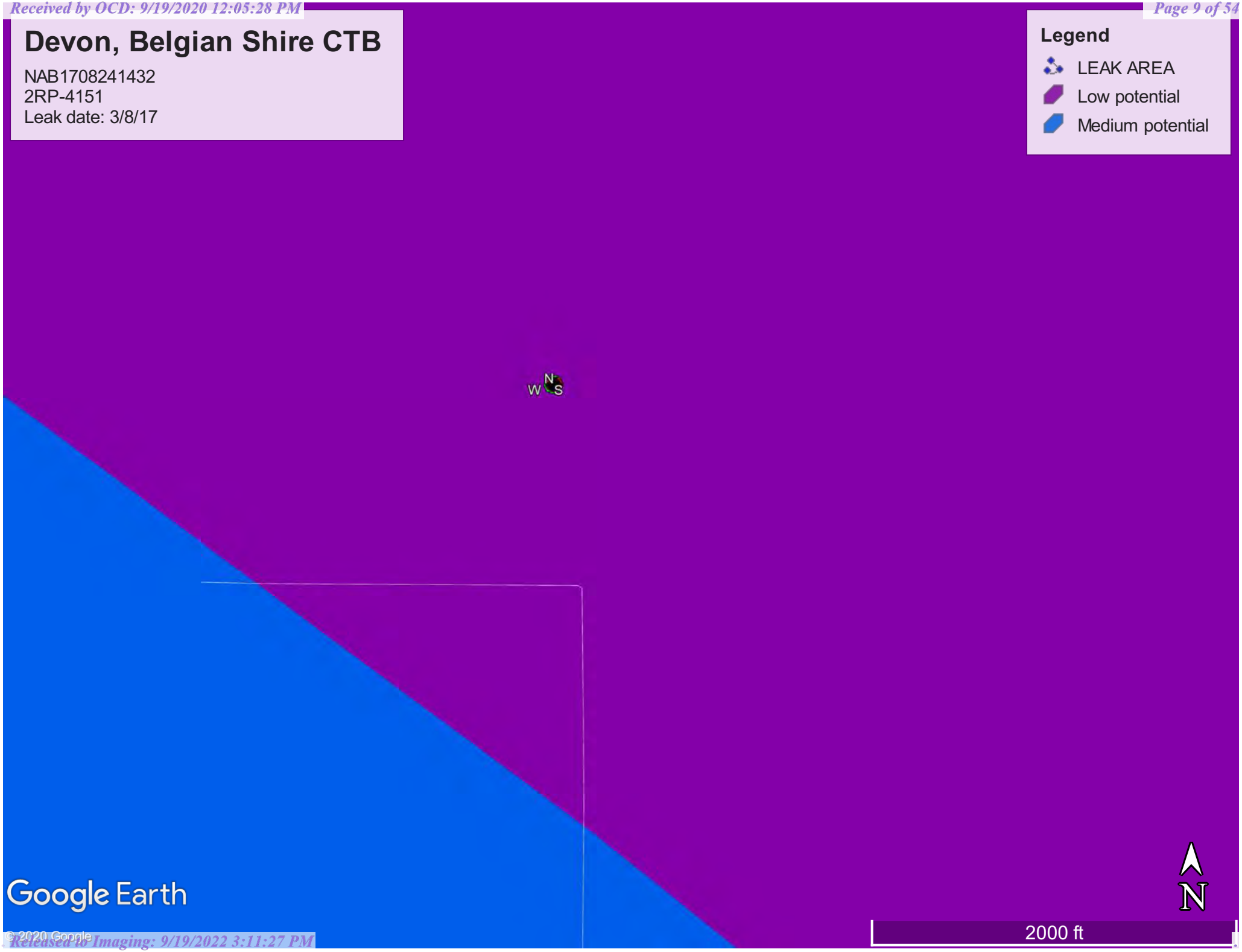
Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,

Devon, Belgian Shire CTB

NAB1708241432
2RP-4151
Leak date: 3/8/17

Legend

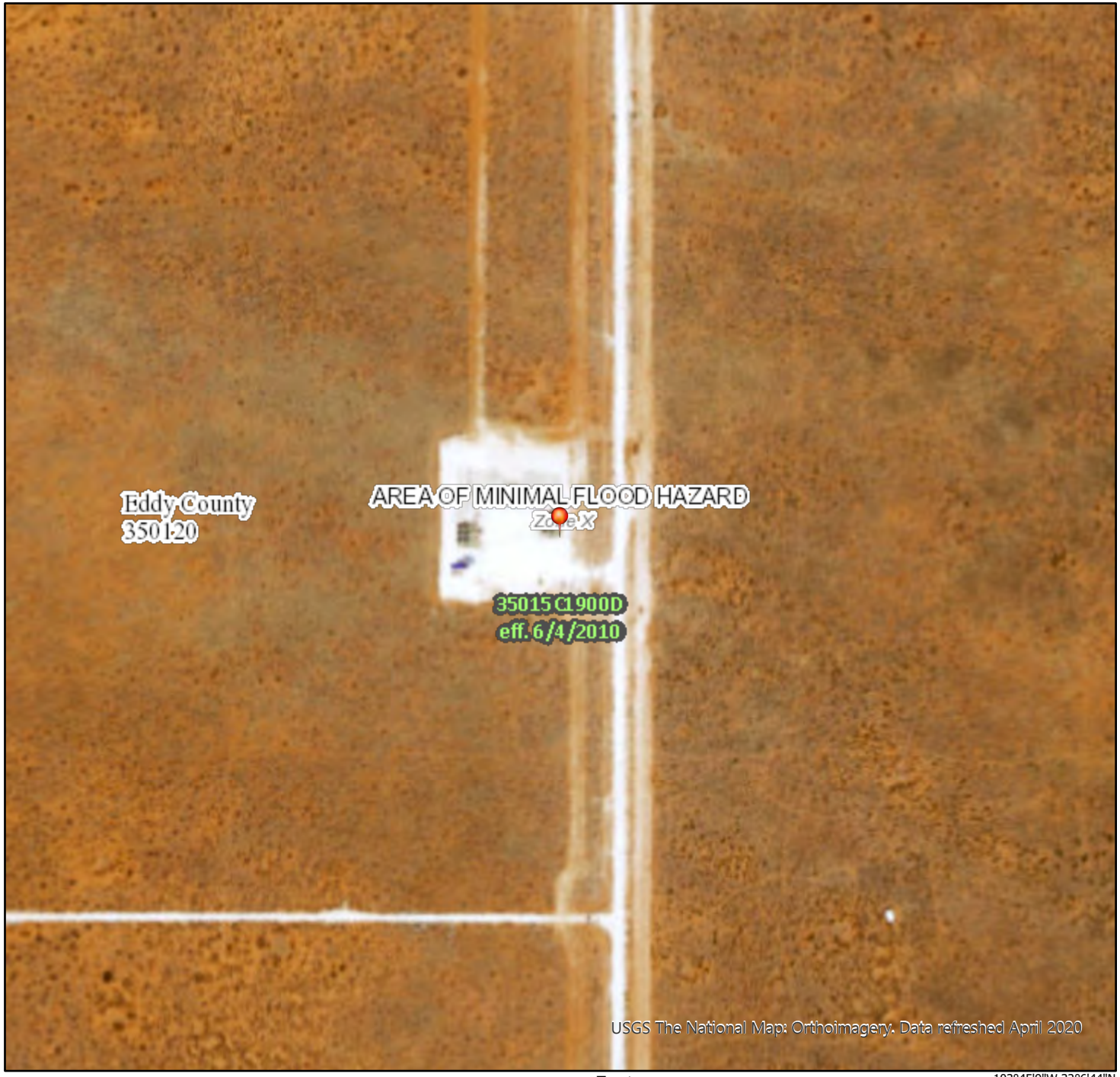
- LEAK AREA
- Low potential
- Medium potential



National Flood Hazard Layer FIRMette

FEMA

103°45'47"W 32°7'15"N



103°45'9"W 32°6'44"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/3/2020 at 11:21 AM 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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 03, 2020

Bob Allen

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

RE: Devon Belgian Shire CTB OrderNo.: 2003C12

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/27/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2003C12**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 Surface
Project: Devon Belgian Shire CTB
Collection Date: 3/25/2020 1:30:00 PM
Lab ID: 2003C12-001 **Matrix:** SOIL **Received Date:** 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	740	60		mg/Kg	20	3/31/2020 1:57:37 AM	51423
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/31/2020 6:41:19 PM	51413
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/31/2020 6:41:19 PM	51413
Surr: DNOP	91.4	55.1-146		%Rec	1	3/31/2020 6:41:19 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2020 9:52:37 PM	51406
Surr: BFB	98.4	66.6-105		%Rec	1	3/31/2020 9:52:37 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/31/2020 9:52:37 PM	51406
Toluene	ND	0.049		mg/Kg	1	3/31/2020 9:52:37 PM	51406
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2020 9:52:37 PM	51406
Xylenes, Total	ND	0.099		mg/Kg	1	3/31/2020 9:52:37 PM	51406
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	3/31/2020 9:52:37 PM	51406

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

Analytical Report
Lab Order **2003C12**
Date Reported: **4/3/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 Surface
Project: Devon Belgian Shire CTB
Collection Date: 3/25/2020 1:40:00 PM
Lab ID: 2003C12-002 **Matrix:** SOIL **Received Date:** 3/27/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	1100	60		mg/Kg	20	3/31/2020 2:59:24 AM	51423
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/31/2020 7:52:49 PM	51413
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/31/2020 7:52:49 PM	51413
Surr: DNOP	88.6	55.1-146		%Rec	1	3/31/2020 7:52:49 PM	51413
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2020 11:04:03 PM	51406
Surr: BFB	100	66.6-105		%Rec	1	3/31/2020 11:04:03 PM	51406
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/31/2020 11:04:03 PM	51406
Toluene	ND	0.050		mg/Kg	1	3/31/2020 11:04:03 PM	51406
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2020 11:04:03 PM	51406
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2020 11:04:03 PM	51406
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	3/31/2020 11:04:03 PM	51406

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

Qualifiers:

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ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C12**
03-Apr-20

Client: Safety & Environmental Solutions
Project: Devon Belgian Shire CTB

Sample ID: **MB-51423** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **51423** RunNo: **67715**
Prep Date: **3/30/2020** Analysis Date: **3/30/2020** SeqNo: **2337858** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-51423** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **51423** RunNo: **67715**
Prep Date: **3/30/2020** Analysis Date: **3/30/2020** SeqNo: **2337859** 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:

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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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C12**

03-Apr-20

Client: Safety & Environmental Solutions

Project: Devon Belgian Shire CTB

Sample ID: **LCS-51419** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51419** RunNo: **67718**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339279** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.9	55.1	146			

Sample ID: **MB-51419** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51419** RunNo: **67718**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339280** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.3	55.1	146			

Sample ID: **MB-51413** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339282** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	55.1	146			

Sample ID: **LCS-51413** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339317** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.3	70	130			
Surr: DNOP	4.6		5.000		92.0	55.1	146			

Sample ID: **2003C12-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-1 Surface** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339324** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.4	47.08	0	88.0	47.4	136			
Surr: DNOP	3.9		4.708		83.5	55.1	146			

Sample ID: **2003C12-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **AH-1 Surface** Batch ID: **51413** RunNo: **67721**
Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2339326** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.0	44.80	0	90.0	47.4	136	2.75	43.4	

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C12**
03-Apr-20

Client: Safety & Environmental Solutions
Project: Devon Belgian Shire CTB

Sample ID: **2003C12-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **AH-1 Surface**	Batch ID: **51413**	RunNo: **67721**							
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2339326**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		4.480		89.4	55.1	146	0	0	

Sample ID: **MB-51432**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **51432**	RunNo: **67718**							
Prep Date: **3/31/2020**	Analysis Date: **4/2/2020**	SeqNo: **2340291**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.7	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C12**

03-Apr-20

Client: Safety & Environmental Solutions

Project: Devon Belgian Shire CTB

Sample ID: **mb-51406** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **51406** RunNo: **67722**

Prep Date: **3/30/2020** Analysis Date: **4/1/2020** SeqNo: **2338693** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	66.6	105			

Sample ID: **lcs-51406** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **51406** RunNo: **67722**

Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2338694** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.7	80	120			
Surr: BFB	1100		1000		109	66.6	105			S

Sample ID: **2003C12-002AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **AH-2 Surface** Batch ID: **51406** RunNo: **67722**

Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2338697** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.58	0	89.2	69.1	142			
Surr: BFB	1100		983.3		110	66.6	105			S

Sample ID: **2003C12-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **AH-2 Surface** Batch ID: **51406** RunNo: **67722**

Prep Date: **3/30/2020** Analysis Date: **3/31/2020** SeqNo: **2338698** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.97	0	86.7	69.1	142	5.34	20	
Surr: BFB	1000		958.8		109	66.6	105	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2003C12**
03-Apr-20

Client: Safety & Environmental Solutions
Project: Devon Belgian Shire CTB

Sample ID: **mb-51406**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **4/1/2020**	SeqNo: **2338892** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: **LCS-51406**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2338893** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.0	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: **2003C12-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AH-1 Surface**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2338895** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9852	0	95.3	78.5	119			
Toluene	0.96	0.049	0.9852	0	97.7	75.7	123			
Ethylbenzene	0.99	0.049	0.9852	0	100	74.3	126			
Xylenes, Total	3.0	0.099	2.956	0	101	72.9	130			
Surr: 4-Bromofluorobenzene	1.0		0.9852		102	80	120			

Sample ID: **2003C12-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AH-1 Surface**	Batch ID: **51406**	RunNo: **67722**
Prep Date: **3/30/2020**	Analysis Date: **3/31/2020**	SeqNo: **2338896** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9970	0	95.2	78.5	119	1.00	20	
Toluene	0.97	0.050	0.9970	0	97.0	75.7	123	0.532	20	
Ethylbenzene	1.0	0.050	0.9970	0	100	74.3	126	1.05	20	
Xylenes, Total	3.0	0.10	2.991	0	100	72.9	130	0.411	20	
Surr: 4-Bromofluorobenzene	1.0		0.9970		101	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2003C12** RcptNo: **1**

Received By: **Juan Rojas** **3/27/2020 8:25:00 AM**

Completed By: **Juan Rojas** **3/27/2020 9:44:54 AM**

Reviewed By: JR 3/27/20

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: DAD 3/27/20

Special Handling (if applicable)

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

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solution

Mailing Address: 703 E Clinton Hobbs NM 88240

Phone #: 575-397-0510

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Devon Belgian State CTB 2084845

Project #: DEV-20-038

Project Manager: Aker, Rob

Sampler: Son Jung

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5-0=0.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2003C12	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
03/25	1330	S	AH-1 Surface	1	Ice	-001	X	X									X
03/25	1340	S	AH-2 Surface	1	Ice	-002	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
03/26/20	1600	Son Jung			3/26/20	1600
3/26/20	1900			courier	3/27/20	8:25

Remarks: Bill Devon direct

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 23, 2020

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

RE: Belgian Shire CTB OrderNo.: 2006851

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/17/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 1ft
Project: Belgian Shire CTB
Collection Date: 6/12/2020 9:45:00 AM
Lab ID: 2006851-001 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	440	60		mg/Kg	20	6/21/2020 6:54:51 PM	53208
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2020 11:24:20 AM	53178
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2020 11:24:20 AM	53178
Surr: DNOP	62.7	55.1-146		%Rec	1	6/20/2020 11:24:20 AM	53178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2020 7:41:10 PM	53137
Surr: BFB	83.9	66.6-105		%Rec	1	6/19/2020 7:41:10 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	6/19/2020 7:41:10 PM	53137
Toluene	ND	0.049		mg/Kg	1	6/19/2020 7:41:10 PM	53137
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2020 7:41:10 PM	53137
Xylenes, Total	ND	0.098		mg/Kg	1	6/19/2020 7:41:10 PM	53137
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/19/2020 7:41:10 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-1 2ft
Project: Belgian Shire CTB
Collection Date: 6/12/2020 10:20:00 AM
Lab ID: 2006851-002 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	170	60		mg/Kg	20	6/21/2020 7:56:54 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2020 11:34:55 AM	53178
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2020 11:34:55 AM	53178
Surr: DNOP	72.3	55.1-146		%Rec	1	6/20/2020 11:34:55 AM	53178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2020 8:04:46 PM	53137
Surr: BFB	86.7	66.6-105		%Rec	1	6/19/2020 8:04:46 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2020 8:04:46 PM	53137
Toluene	ND	0.049		mg/Kg	1	6/19/2020 8:04:46 PM	53137
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2020 8:04:46 PM	53137
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2020 8:04:46 PM	53137
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	6/19/2020 8:04:46 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 1ft
Project: Belgian Shire CTB
Collection Date: 6/12/2020 10:40:00 AM
Lab ID: 2006851-003 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	240	60		mg/Kg	20	6/21/2020 8:58:58 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2020 11:45:25 AM	53178
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2020 11:45:25 AM	53178
Surr: DNOP	77.3	55.1-146		%Rec	1	6/20/2020 11:45:25 AM	53178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2020 8:28:26 PM	53137
Surr: BFB	82.9	66.6-105		%Rec	1	6/19/2020 8:28:26 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2020 8:28:26 PM	53137
Toluene	ND	0.047		mg/Kg	1	6/19/2020 8:28:26 PM	53137
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2020 8:28:26 PM	53137
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2020 8:28:26 PM	53137
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/19/2020 8:28:26 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: AH-2 2ft
Project: Belgian Shire CTB
Collection Date: 6/12/2020 11:20:00 AM
Lab ID: 2006851-004 **Matrix:** SOIL
Received Date: 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	170	60		mg/Kg	20	6/21/2020 9:11:22 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2020 11:55:53 AM	53178
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2020 11:55:53 AM	53178
Surr: DNOP	106	55.1-146		%Rec	1	6/20/2020 11:55:53 AM	53178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2020 8:51:56 PM	53137
Surr: BFB	82.0	66.6-105		%Rec	1	6/19/2020 8:51:56 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2020 8:51:56 PM	53137
Toluene	ND	0.048		mg/Kg	1	6/19/2020 8:51:56 PM	53137
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2020 8:51:56 PM	53137
Xylenes, Total	ND	0.096		mg/Kg	1	6/19/2020 8:51:56 PM	53137
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/19/2020 8:51:56 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: North-H
Project: Belgian Shire CTB
Collection Date: 6/12/2020 12:05:00 PM
Lab ID: 2006851-005 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	230	59		mg/Kg	20	6/21/2020 9:23:47 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2020 12:06:19 PM	53178
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2020 12:06:19 PM	53178
Surr: DNOP	125	55.1-146		%Rec	1	6/20/2020 12:06:19 PM	53178
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2020 9:15:24 PM	53137
Surr: BFB	85.1	66.6-105		%Rec	1	6/19/2020 9:15:24 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	6/19/2020 9:15:24 PM	53137
Toluene	ND	0.046		mg/Kg	1	6/19/2020 9:15:24 PM	53137
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2020 9:15:24 PM	53137
Xylenes, Total	ND	0.092		mg/Kg	1	6/19/2020 9:15:24 PM	53137
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/19/2020 9:15:24 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: South-H
Project: Belgian Shire CTB
Collection Date: 6/12/2020 12:25:00 PM
Lab ID: 2006851-006 **Matrix:** SOIL
Received Date: 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	6/21/2020 9:36:11 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/20/2020 2:33:39 PM	53182
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2020 2:33:39 PM	53182
Surr: DNOP	101	55.1-146		%Rec	1	6/20/2020 2:33:39 PM	53182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2020 9:38:47 PM	53137
Surr: BFB	83.5	66.6-105		%Rec	1	6/19/2020 9:38:47 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2020 9:38:47 PM	53137
Toluene	ND	0.048		mg/Kg	1	6/19/2020 9:38:47 PM	53137
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2020 9:38:47 PM	53137
Xylenes, Total	ND	0.096		mg/Kg	1	6/19/2020 9:38:47 PM	53137
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	6/19/2020 9:38:47 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: East-H
Project: Belgian Shire CTB
Collection Date: 6/12/2020 12:35:00 PM
Lab ID: 2006851-007 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	82	60		mg/Kg	20	6/21/2020 9:48:36 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2020 3:03:53 PM	53182
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2020 3:03:53 PM	53182
Surr: DNOP	110	55.1-146		%Rec	1	6/20/2020 3:03:53 PM	53182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2020 10:49:07 PM	53137
Surr: BFB	81.8	66.6-105		%Rec	1	6/19/2020 10:49:07 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	6/19/2020 10:49:07 PM	53137
Toluene	ND	0.046		mg/Kg	1	6/19/2020 10:49:07 PM	53137
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2020 10:49:07 PM	53137
Xylenes, Total	ND	0.092		mg/Kg	1	6/19/2020 10:49:07 PM	53137
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/19/2020 10:49:07 PM	53137

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

Qualifiers:

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

Analytical Report
Lab Order **2006851**
Date Reported: **6/23/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: West-H
Project: Belgian Shire CTB
Collection Date: 6/12/2020 12:55:00 PM
Lab ID: 2006851-008 **Matrix:** SOIL **Received Date:** 6/17/2020 9:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	140	60		mg/Kg	20	6/21/2020 10:01:01 PM	53209
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/20/2020 3:13:59 PM	53182
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2020 3:13:59 PM	53182
Surr: DNOP	101	55.1-146		%Rec	1	6/20/2020 3:13:59 PM	53182
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2020 11:12:31 PM	53137
Surr: BFB	80.9	66.6-105		%Rec	1	6/19/2020 11:12:31 PM	53137
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	6/19/2020 11:12:31 PM	53137
Toluene	ND	0.046		mg/Kg	1	6/19/2020 11:12:31 PM	53137
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2020 11:12:31 PM	53137
Xylenes, Total	ND	0.092		mg/Kg	1	6/19/2020 11:12:31 PM	53137
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	6/19/2020 11:12:31 PM	53137

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2006851**

30-Jun-20

Client: Safety & Environmental Solutions

Project: Belgian Shire CTB

Sample ID: **MB-53208** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **53208** RunNo: **69792**

Prep Date: **6/21/2020** Analysis Date: **6/21/2020** SeqNo: **2423480** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53208** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **53208** RunNo: **69792**

Prep Date: **6/21/2020** Analysis Date: **6/21/2020** SeqNo: **2423481** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: **MB-53209** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **53209** RunNo: **69792**

Prep Date: **6/21/2020** Analysis Date: **6/21/2020** SeqNo: **2423510** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53209** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **53209** RunNo: **69792**

Prep Date: **6/21/2020** Analysis Date: **6/21/2020** SeqNo: **2423511** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006851**
30-Jun-20

Client: Safety & Environmental Solutions
Project: Belgian Shire CTB

Sample ID: **LCS-53178** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **53178** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	129	70	130			
Surr: DNOP	6.2		5.000		124	55.1	146			

Sample ID: **MB-53178** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **53178** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422148** 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	13		10.00		132	55.1	146			

Sample ID: **2006851-006AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **South-H** Batch ID: **53182** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422369** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.45	0	106	47.4	136			
Surr: DNOP	4.9		4.845		101	55.1	146			

Sample ID: **2006851-006AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **South-H** Batch ID: **53182** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422370** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.4	46.90	0	108	47.4	136	1.58	43.4	
Surr: DNOP	4.7		4.690		99.7	55.1	146	0	0	

Sample ID: **LCS-53182** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **53182** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422438** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.1	70	130			
Surr: DNOP	4.8		5.000		95.4	55.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006851**
30-Jun-20

Client: Safety & Environmental Solutions
Project: Belgian Shire CTB

Sample ID: **MB-53182** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **53182** RunNo: **69768**
Prep Date: **6/19/2020** Analysis Date: **6/20/2020** SeqNo: **2422441** 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	11		10.00		111	55.1	146			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006851**
30-Jun-20

Client: Safety & Environmental Solutions
Project: Belgian Shire CTB

Sample ID: **lcs-53137** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **53137** RunNo: **69769**
Prep Date: **6/17/2020** Analysis Date: **6/19/2020** SeqNo: **2422183** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	80	120			
Surr: BFB	910		1000		90.9	66.6	105			

Sample ID: **mb-53137** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **53137** RunNo: **69769**
Prep Date: **6/17/2020** Analysis Date: **6/19/2020** SeqNo: **2422184** 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	830		1000		83.2	66.6	105			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2006851**
30-Jun-20

Client: Safety & Environmental Solutions
Project: Belgian Shire CTB

Sample ID: **LCS-53137**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **53137**	RunNo: **69769**
Prep Date: **6/17/2020**	Analysis Date: **6/19/2020**	SeqNo: **2422214** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: **mb-53137**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **53137**	RunNo: **69769**
Prep Date: **6/17/2020**	Analysis Date: **6/19/2020**	SeqNo: **2422215** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 & Environmental Solutions | Work Order Number: 2006851 | RcptNo: 1

Received By: **Emily Mocho** 6/17/2020 9:10:00 AM

Completed By: **Juan Rojas** 6/17/2020 9:52:13 AM

Reviewed By: JR 6/17/20

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: SPA 6.17.20

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

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

Chain-of-Custody Record

Client: Safety + Environmental Solution

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0510

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time: 5day
☑ Standard ☐ Rush_____

Project Name: Devon Bolgizn SWD CTB

Project #: DEV-20-038

Project Manager: Allen Bob

Sampler: Sean Jung

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4 ± 0 = 1.4 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2006857	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
06/12	0945	S	AH-1 1FT	1		-001	X	X									X
	1020	S	AH-1 2FT	1		-002											
	1040	S	AH-2 1FT	1		-003											
	1120	S	AH-2 1FT	1		-004											
	1205	S	NORTH-V	1		-005											
	1225	S	SOUTH-V	1		-006											
	1235	S	EAST-V	1		-007											
06/12	1255	S	WEST-V	1		-008	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/15	0800	Sean Jung			6/16/20	0820
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/16/20	1900		Exam courier		6/17/20	9:10

Remarks: Bill Devon

Corrected sample ID -004 to AH-2 @ 2ft. Corrected sample ID -005 , North-H, -006 South-H and -007 East-H and -008 West-H. As per Katherine Purvis, 6/30/20 MMG

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 15, 2020

Bob Allen

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

RE: Devon Belgian Shire CTB OrderNo.: 2007322

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/8/2020 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-1 1ft Bottom
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 10:35:00 AM
Lab ID: 2007322-001 **Matrix:** SOIL
Received Date: 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	140	60		mg/Kg	20	7/11/2020 3:18:29 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/9/2020 10:02:43 PM	53572
Surr: BFB	94.0	70-130		%Rec	1	7/9/2020 10:02:43 PM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/11/2020 1:15:26 AM	53583
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 1:15:26 AM	53583
Surr: DNOP	31.7	55.1-146	S	%Rec	1	7/11/2020 1:15:26 AM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.023		mg/Kg	1	7/9/2020 10:02:43 PM	53572
Toluene	ND	0.046		mg/Kg	1	7/9/2020 10:02:43 PM	53572
Ethylbenzene	ND	0.046		mg/Kg	1	7/9/2020 10:02:43 PM	53572
Xylenes, Total	ND	0.092		mg/Kg	1	7/9/2020 10:02:43 PM	53572
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	7/9/2020 10:02:43 PM	53572
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	7/9/2020 10:02:43 PM	53572
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/9/2020 10:02:43 PM	53572
Surr: Toluene-d8	106	70-130		%Rec	1	7/9/2020 10:02:43 PM	53572

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

Qualifiers:

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

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: SP-2 1ft Bottom
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 12:50:00 PM
Lab ID: 2007322-002 **Matrix:** SOIL **Received Date:** 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	140	60		mg/Kg	20	7/11/2020 3:30:50 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2020 10:31:17 PM	53572
Surr: BFB	93.5	70-130		%Rec	1	7/9/2020 10:31:17 PM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/11/2020 1:39:58 AM	53583
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 1:39:58 AM	53583
Surr: DNOP	28.9	55.1-146	S	%Rec	1	7/11/2020 1:39:58 AM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	7/9/2020 10:31:17 PM	53572
Toluene	ND	0.048		mg/Kg	1	7/9/2020 10:31:17 PM	53572
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2020 10:31:17 PM	53572
Xylenes, Total	ND	0.096		mg/Kg	1	7/9/2020 10:31:17 PM	53572
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 10:31:17 PM	53572
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	7/9/2020 10:31:17 PM	53572
Surr: Dibromofluoromethane	113	70-130		%Rec	1	7/9/2020 10:31:17 PM	53572
Surr: Toluene-d8	103	70-130		%Rec	1	7/9/2020 10:31:17 PM	53572

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

Qualifiers:

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

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-North
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 11:00:00 AM
Lab ID: 2007322-003 **Matrix:** SOIL **Received Date:** 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	150	60		mg/Kg	20	7/11/2020 3:43:11 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	**DJF**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/9/2020 10:59:49 PM	53572
Surr: BFB	93.8	70-130		%Rec	1	7/9/2020 10:59:49 PM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/13/2020 12:17:49 PM	53583
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/13/2020 12:17:49 PM	53583
Surr: DNOP	85.9	55.1-146		%Rec	1	7/13/2020 12:17:49 PM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	0.023		mg/Kg	1	7/9/2020 10:59:49 PM	53572
Toluene	ND	0.047		mg/Kg	1	7/9/2020 10:59:49 PM	53572
Ethylbenzene	ND	0.047		mg/Kg	1	7/9/2020 10:59:49 PM	53572
Xylenes, Total	ND	0.093		mg/Kg	1	7/9/2020 10:59:49 PM	53572
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	7/9/2020 10:59:49 PM	53572
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	7/9/2020 10:59:49 PM	53572
Surr: Dibromofluoromethane	105	70-130		%Rec	1	7/9/2020 10:59:49 PM	53572
Surr: Toluene-d8	103	70-130		%Rec	1	7/9/2020 10:59:49 PM	53572

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

Qualifiers:

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

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-South
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 1:55:00 PM
Lab ID: 2007322-004 **Matrix:** SOIL **Received Date:** 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	100	60		mg/Kg	20	7/11/2020 4:20:13 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2020 11:28:20 PM	53572
Surr: BFB	96.3	70-130		%Rec	1	7/9/2020 11:28:20 PM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/11/2020 2:52:48 AM	53583
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 2:52:48 AM	53583
Surr: DNOP	39.9	55.1-146	S	%Rec	1	7/11/2020 2:52:48 AM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	7/9/2020 11:28:20 PM	53572
Toluene	ND	0.048		mg/Kg	1	7/9/2020 11:28:20 PM	53572
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2020 11:28:20 PM	53572
Xylenes, Total	ND	0.096		mg/Kg	1	7/9/2020 11:28:20 PM	53572
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/9/2020 11:28:20 PM	53572
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	7/9/2020 11:28:20 PM	53572
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/9/2020 11:28:20 PM	53572
Surr: Toluene-d8	106	70-130		%Rec	1	7/9/2020 11:28:20 PM	53572

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

Qualifiers:

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

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-East
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 12:35:00 PM
Lab ID: 2007322-005 **Matrix:** SOIL **Received Date:** 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	110	60		mg/Kg	20	7/11/2020 4:32:33 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	**DJF**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/10/2020 1:50:55 AM	53572
Surr: BFB	90.9	70-130		%Rec	1	7/10/2020 1:50:55 AM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/11/2020 3:17:17 AM	53583
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 3:17:17 AM	53583
Surr: DNOP	43.0	55.1-146	S	%Rec	1	7/11/2020 3:17:17 AM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst:	**DJF**
Benzene	ND	0.025		mg/Kg	1	7/10/2020 1:50:55 AM	53572
Toluene	ND	0.049		mg/Kg	1	7/10/2020 1:50:55 AM	53572
Ethylbenzene	ND	0.049		mg/Kg	1	7/10/2020 1:50:55 AM	53572
Xylenes, Total	ND	0.099		mg/Kg	1	7/10/2020 1:50:55 AM	53572
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/10/2020 1:50:55 AM	53572
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	7/10/2020 1:50:55 AM	53572
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/10/2020 1:50:55 AM	53572
Surr: Toluene-d8	105	70-130		%Rec	1	7/10/2020 1:50:55 AM	53572

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

Analytical Report
Lab Order **2007322**
Date Reported: **7/15/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions
Client Sample ID: H-West
Project: Devon Belgian Shire CTB
Collection Date: 7/6/2020 1:00:00 PM
Lab ID: 2007322-006 **Matrix:** SOIL **Received Date:** 7/8/2020 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	290	60		mg/Kg	20	7/11/2020 4:44:53 PM	53646
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/10/2020 2:19:28 AM	53572
Surr: BFB	93.4	70-130		%Rec	1	7/10/2020 2:19:28 AM	53572
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/11/2020 3:41:42 AM	53583
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2020 3:41:42 AM	53583
Surr: DNOP	43.3	55.1-146	S	%Rec	1	7/11/2020 3:41:42 AM	53583
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.024		mg/Kg	1	7/10/2020 2:19:28 AM	53572
Toluene	ND	0.047		mg/Kg	1	7/10/2020 2:19:28 AM	53572
Ethylbenzene	ND	0.047		mg/Kg	1	7/10/2020 2:19:28 AM	53572
Xylenes, Total	ND	0.095		mg/Kg	1	7/10/2020 2:19:28 AM	53572
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	7/10/2020 2:19:28 AM	53572
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	7/10/2020 2:19:28 AM	53572
Surr: Dibromofluoromethane	104	70-130		%Rec	1	7/10/2020 2:19:28 AM	53572
Surr: Toluene-d8	103	70-130		%Rec	1	7/10/2020 2:19:28 AM	53572

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007322**
15-Jul-20

Client: Safety & Environmental Solutions
Project: Devon Belgian Shire CTB

Sample ID: **MB-53646** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **53646** RunNo: **70284**
Prep Date: **7/11/2020** Analysis Date: **7/11/2020** SeqNo: **2443178** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-53646** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **53646** RunNo: **70284**
Prep Date: **7/11/2020** Analysis Date: **7/11/2020** SeqNo: **2443179** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007322**

15-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Belgian Shire CTB

Sample ID: **LCS-53583**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **53583**	RunNo: **70235**							
Prep Date: **7/9/2020**	Analysis Date: **7/10/2020**	SeqNo: **2442380**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.3	70	130			
Surr: DNOP	4.1		5.000		81.1	55.1	146			

Sample ID: **LCS-53633**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **53633**	RunNo: **70235**							
Prep Date: **7/10/2020**	Analysis Date: **7/11/2020**	SeqNo: **2442383**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.4	55.1	146			

Sample ID: **MB-53583**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **53583**	RunNo: **70235**							
Prep Date: **7/9/2020**	Analysis Date: **7/10/2020**	SeqNo: **2442385**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	55.1	146			

Sample ID: **MB-53633**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **53633**	RunNo: **70235**							
Prep Date: **7/10/2020**	Analysis Date: **7/11/2020**	SeqNo: **2442387**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.0	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2007322**
15-Jul-20

Client: Safety & Environmental Solutions
Project: Devon Belgian Shire CTB

Sample ID: **mb-53572** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **53572** RunNo: **70232**
Prep Date: **7/8/2020** Analysis Date: **7/9/2020** SeqNo: **2440969** Units: **mg/Kg**

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	0.53		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.6	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: **lcs-53572** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **53572** RunNo: **70232**
Prep Date: **7/8/2020** Analysis Date: **7/9/2020** SeqNo: **2440970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.52		0.5000		105	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007322**

15-Jul-20

Client: Safety & Environmental Solutions

Project: Devon Belgian Shire CTB

Sample ID: **mb-53572**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **53572**	RunNo: **70232**
Prep Date: **7/8/2020**	Analysis Date: **7/9/2020**	SeqNo: **2440993** 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	470		500.0		94.1	70	130			

Sample ID: **lcs-53572**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **53572**	RunNo: **70232**
Prep Date: **7/8/2020**	Analysis Date: **7/9/2020**	SeqNo: **2440994** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.0	70	130			
Surr: BFB	480		500.0		96.4	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Safety & Environmental Solutions | Work Order Number: 2007322 | RcptNo: 1

Received By: **Juan Rojas** 7/8/2020 9:25:00 AM

Completed By: **Juan Rojas** 7/8/2020 10:11:27 AM

Reviewed By: SPA 7.8.20

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 7/8/20

Special Handling (if applicable)

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

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				

Chain-of-Custody Record

Client: Safety & Environmental Solution

Mailing Address: 703 E. Clinton Hobbs N.M 88240

Phone #: 575-397-0570

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day Turn
☑ Standard ☐ Rush

Project Name: Devon Belgian Sitare CTB

Project #: DEV-20-038

Project Manager: Allen, Bob

Sampler: Son. Jenny

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.5+0=4.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2007322	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
07/06	1035	S	SP-1 1ft Bottom	1	Ice	-001	X	X									X
	1250	S	SP-2 1ft Bottom	1		-002											
	1100	S	H-North	1		-003											
	1355	S	H-South	1		-004											
	1235	S	H-East	1		-005											
07/06	1300	S	H-West	1		-006	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
07/08	0800	Son Jenny				
7/7/20	1900			courier	7/8/20	9:25

Remarks:

WO # 20482845

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

State of New Mexico
Oil Conservation Division

Incident ID	
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?	_____ (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?	☐ Yes ☐ No
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

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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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: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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 health, 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.

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: Tom Bynum Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Brittany Hall Date: 9/19/2022

Printed Name: Brittany Hall Title: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 10267

CONDITIONS

Operator: Safety & Environmental Solutions, Inc. PO Box 1613 Hobbs, NM 88240	OGRID: 329088
	Action Number: 10267
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	9/19/2022