

3R-1012

**Release Report/ General
Correspondence**

Enterprise RA

Date: Q1/Q2 2018

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC.	Contact: James Lieb and Runell Seale	
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2159 and 505-599-2124	
Facility Name: Lateral K-34 Pipeline	Facility Type: Natural Gas Gathering Line	
Surface Owner: BLM	Mineral Owner BLM	API No.

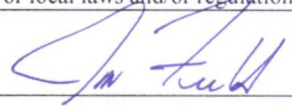
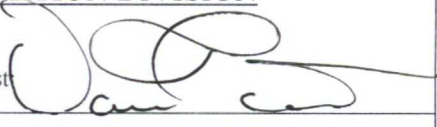
LOCATION OF RELEASE

Unit Letter N	Section 4	Township 25N	Range 7W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude N 36.422547 Longitude W -107.580262

RCVD NOV 12 '13
OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release: Natural Gas Condensate and Produced Water	Volume of Release: Liquids Unknown; ~86,184 mcf of natural gas released	Volume Recovered: none, there was no contamination in the area of the line break
Source of Release: Severance of a natural gas gathering pipeline during a flash flood event.	Date and Hour of Occurrence: September 18, 2013 4:00 p.m.	Date and Hour of Discovery: Pipe leak discovered and isolated (LOTO) 9-23-13 11:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD- Bill Hoppe notified via phone call about 1:45 pm ROW notified the BLM at 2:23 pm NRC notified at 2:45 pm via phone call.	
By Whom? Runell Seale	Date and Hour 09/23/2013	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. Unknown volume	
If a Watercourse was Impacted, Describe Fully.* A recent storm event caused approximately 30 feet of pipeline that spanned Palluche Wash to be completely severed. Palluche Wash is a tributary to Canyon Largo Wash. The release is location approximately 5 mile southwest of Canyon Largo Wash.		
Describe Cause of Problem and Remedial Action Taken.* A recent flash flood event caused approximately 30 feet of the pipeline to be completely severed. The line was isolated and LOTO applied during discovery. An environmental assessment was performed by 3 rd party environmental contractor (SMA) with soil borings in the area of the line break. The assessment showed there to be no environmental contamination present. A copy of SMA's report is included with this form.		
Describe Area Affected and Cleanup Action Taken.* A recent storm event caused an approximately 30 foot section of pipeline that spanned Palluche Wash to be completely severed. An environmental assessment performed on October 1 st by Souder, Miller & Associates showed there to be no contamination present at the site of the line break. Hence, cleanup is not needed. Enterprise will remove the broken section of pipe from the wash after obtaining regulatory approvals.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist 	
Title: Director, Field Environmental	Approval Date: 3/5/18	Expiration Date:
E-mail Address: JEFIELDS@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/31/2013	Phone: 713-381-6684	

NSK1331131963

25

Enterprise Products
Lateral K-34 Pipeline Release
Latitude North 36.4225 1, Longitude West -107.58034
SE 1/4, SW 1/4 Section 4 T25N R7W
Rio Arriba County, New Mexico

RCVD NOV 12 '13
OIL CONS. DIV.
DIST. 3



Submitted To:

Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:

Souder, Miller & Associates
2101 San Juan Boulevard
Farmington, NM 87401
(505)325-7535



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1.0 Executive Summary

On October 1, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral K-34 pipeline. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lateral K-34 Pipeline Release			
Location	Latitude/Longitude		Section, Township, Range	
	36.42251	-107.58034	Unit N SE ¼ SW ¼ Section 4	T 25N, R 7W
Date Reported	September 23, 2013			
	Runell Seale			
Land Owner	Bureau of Land Management (BLM)			
Reported To	New Mexico Oil Conservation Division (NMOCD) and BLM			
Diameter of Pipeline	6 inches			
Source of Release	Natural Gas Pipeline was severed during a flash flood event			
Release Contents	Natural Gas Liquids/Condensate			
Release Volume	Unknown			
Nearest Waterway	Palluche Wash			
Depth to Groundwater	Assumed to be less than 50 feet			
Nearest Domestic Water Source	Greater than 200 feet			
NMOCD Ranking	40			
SMA Response Dates	October 1, 2013			
Subcontractors	NA			
Disposal Facility	NA			
Yd ³ Contaminated Soil Excavated and Disposed	NA			

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Lateral K-34 pipeline. The Lateral K-34 pipeline release was a result of a natural gas pipeline that was completely severed during a flash flood event in Palluche Wash. The release was reported on September 23, 2013. The pipeline is located in Unit N (SE ¼, SW ¼) Section 4, Township 25 North, Range 7 West, 36.42251, -107.58034 Rio Arriba County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located in Palluche Wash on BLM land with an elevation of approximately 6,328 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No wells were located in Sections 4 or 9. The physical location of this release is within the jurisdiction of NMOCD. This release location has been assigned a NMOCD ranking of 40 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

October 1, 2013, SMA mobilized to the release site to delineate the release area by installing soil borings with a hand auger and conduct field screening. A total of five soil borings were installed to a total depth of three feet below ground surface (bgs). Soil samples were collected at one foot intervals for field screening with a calibrated photo-ionization detector (PID). Field notes for both events are included in Appendix A. Field screening results are summarized in Table 3. Figure 2 illustrates the locations of the soil borings and laboratory results. Site photographs are included in Appendix B.

SMA collected a total of five soil samples for laboratory analysis. All soil samples were collected from the bottom of each soil boring, at three feet bgs. All laboratory soil samples were field screened with a calibrated PID and submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Based on laboratory analysis, all of the soil samples collected were below laboratory detection limits. Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analysis is included in Table 4. Laboratory reports are included in Appendix C.

SMA recommends no further action at this site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Thomas Long or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

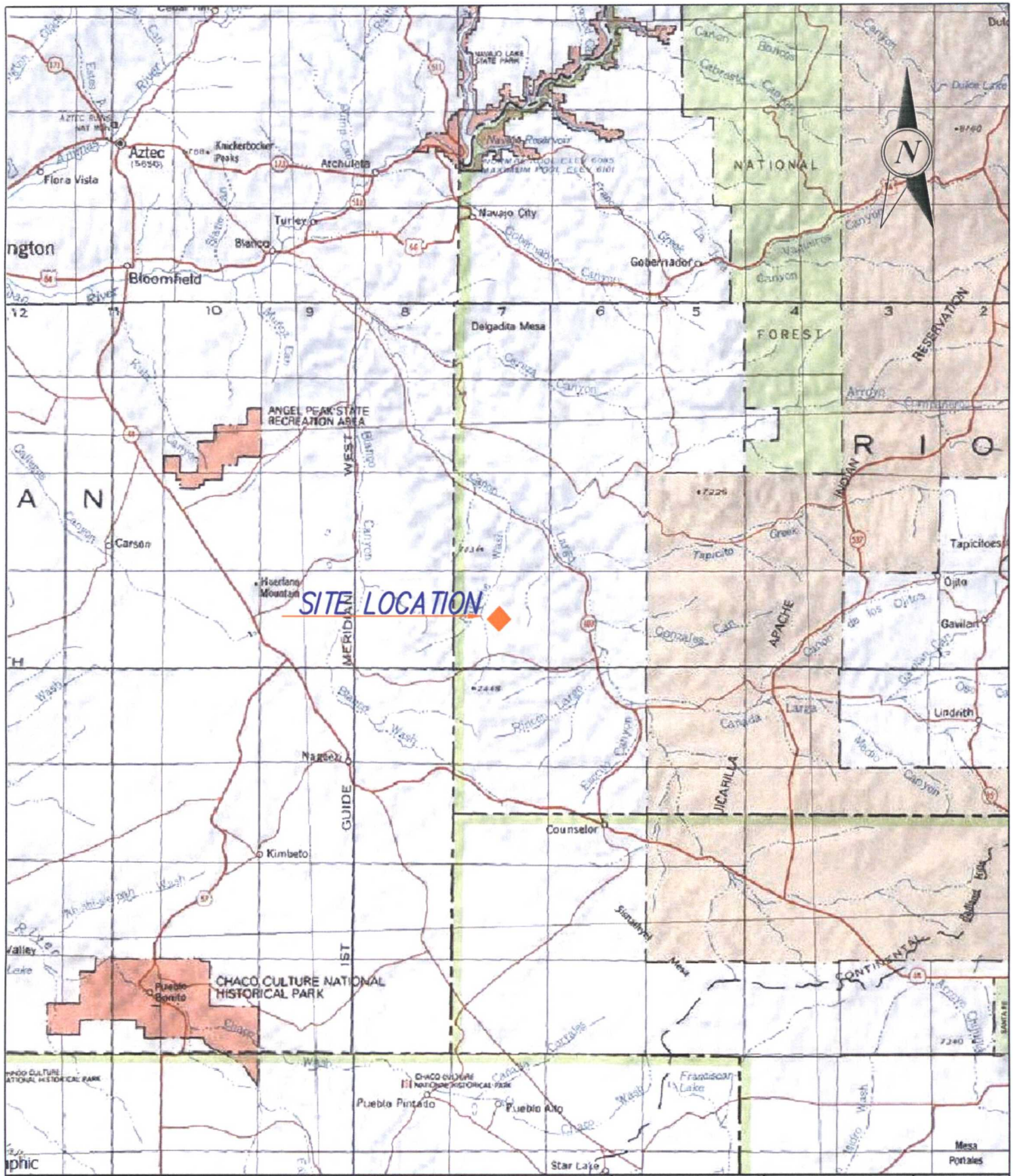
SOUDER, MILLER & ASSOCIATES



Thomas J. Long
Project Scientist



Reid S. Allan, PG
Principal Scientist



2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 10/9/2013

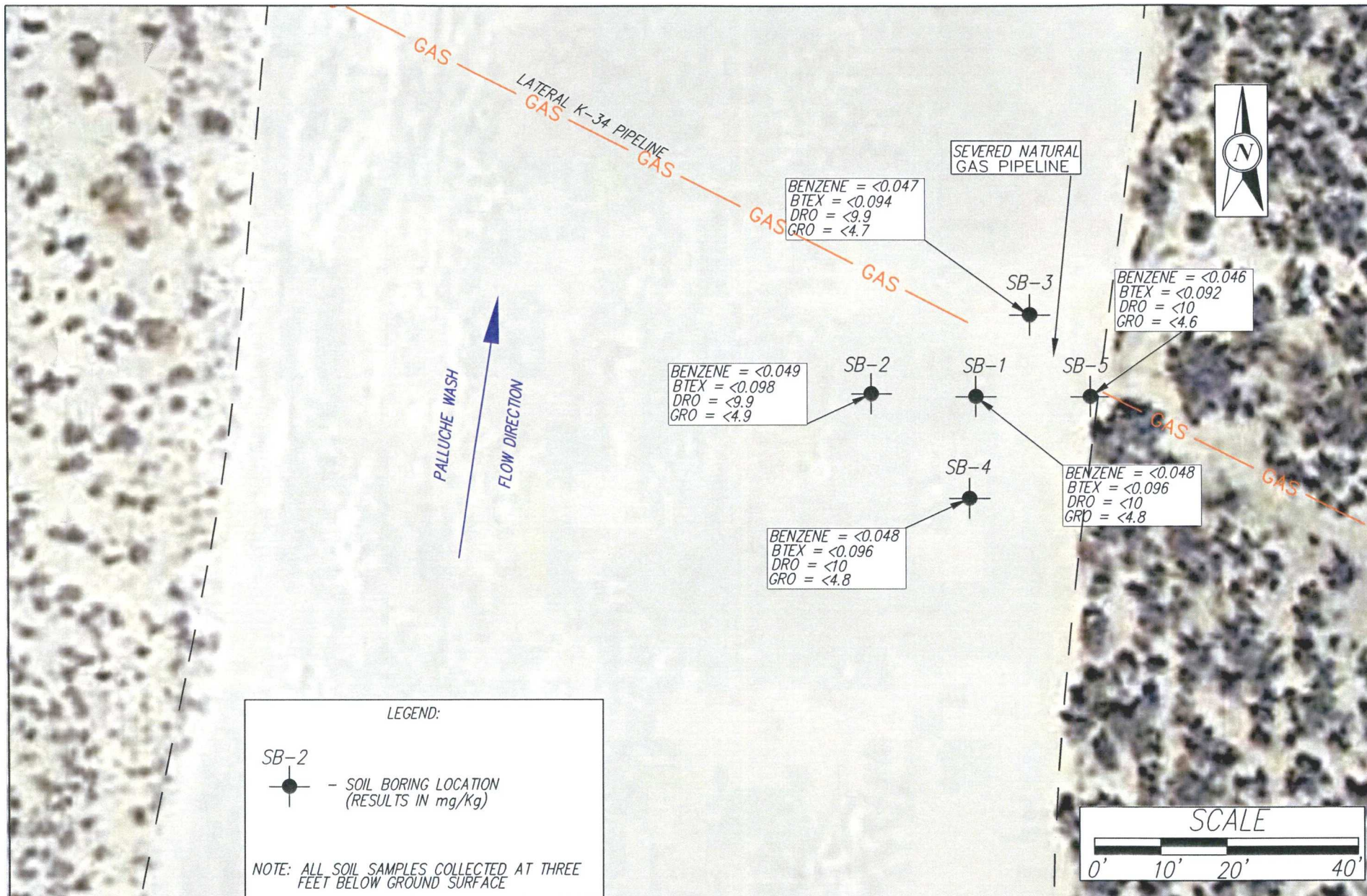
DATE: 10/9/2013

DATE:

FIGURE: 1

VICINITY MAP

LATERAL K-34 RELEASE SITE
SE 1/4 SW 1/4 SECTION 4 T25N R7W
RIO ARRIBA COUNTY, NEW MEXICO



2101 SAN JUAN BLVD
 FARMINGTON, NM 87401

FAX (505) 327-1496
 PH. (505) 325-5867

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 10/9/2013

DATE: 10/9/2013

DATE:

FIGURE: 2

**SITE AND SOIL CONTAMINANT
 CONCENTRATION MAP**
LATERAL K-34 RELEASE SITE
 SE 1/4 SW 1/4 SECTION 4 T25N R7W
 RIO ARriba COUNTY, NEW MEXICO

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference from the site and the unnamed wash to the north	Release is located in Palluche Wash
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	20	USGS Topo Maps; Google Earth; PRCC Mapping Tool	Release is located in Palluche Wash
200'-1000' = 10			
>1000'			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source?	0	NM State Engineer Water Well Database	No well located in Sections 4 or 9
<200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0			
Total Site Ranking	40		
Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



Enterprise Products
Table 3: Summary of Field Screening Results
(PPM)

Lateral K-34
Pipeline Release
10/10/13

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
10/1/2013	11:32	SB-1	1	0.0	N
10/1/2013	11:33	SB-1	2	0.0	N
10/1/2013	11:34	SB-1	3	0.0	Y
10/1/2013	11:35	SB-2	2	0.0	N
10/1/2013	11:36	SB-2	3	0.0	Y
10/1/2013	11:37	SB-3	1	0.0	N
10/1/2013	11:38	SB-3	2	0.0	N
10/1/2013	11:39	SB-3	3	0.0	Y
10/1/2013	11:40	SB-4	1	0.0	N
10/1/2013	11:41	SB-4	2	0.0	N
10/1/2013	11:42	SB-4	3	0.0	Y
10/1/2013	11:43	SB-5	1	0.0	N
10/1/2013	11:44	SB-5	2	0.0	N
10/1/2013	11:45	SB-5	3.0	0.0	Y



Enterprise Products
Table 4: Summary of Laboratory Analysis
Results in Kg/mg

Lateral K-34
Pipeline Release
10/10/13

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
10/1/2013	11:34	SB-1	3	<4.8	<10	<0.048	<0.096
10/1/2013	11:36	SB-2	3	<4.9	<9.9	<0.049	<0.098
10/1/2013	11:39	SB-3	3	<4.7	<9.9	<0.047	<0.094
10/1/2013	11:42	SB-4	3	<4.8	<10	<0.048	<0.096
10/1/2013	11:45	SB-5	3	<4.6	<10	<0.046	<0.092



SUBJECT Lateral K-34

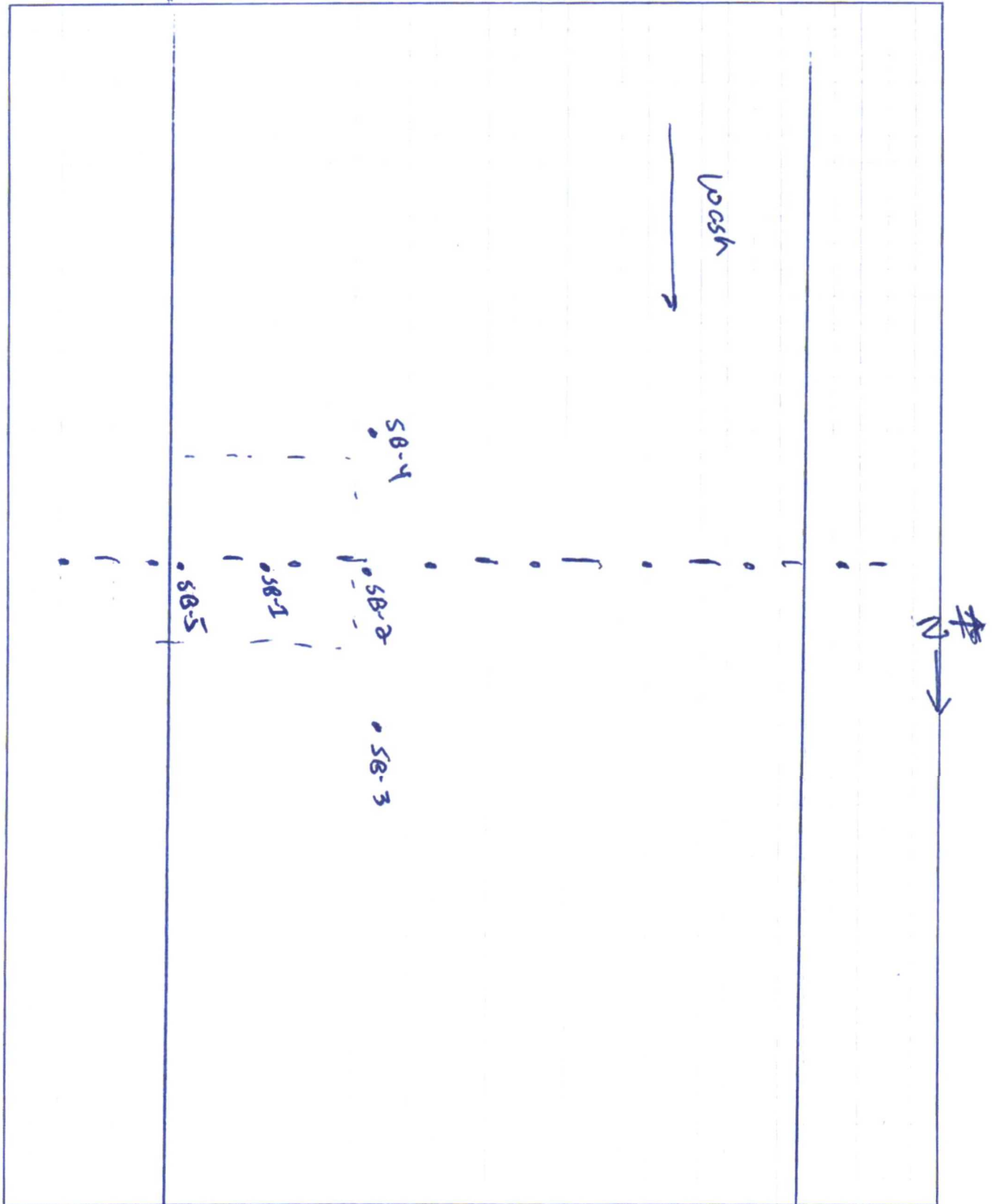
PROJECT Station PAGE 1 of 2

CLIENT Enterprise

DATE 10-1-13 BY 75L

CHECKED

BY



SUBJECT Lateral K-34

PROJECT

PAGE 2 of 2CLIENT EPcoDATE 10-1-13 BY TJLonsite @ 1100

CHECKED

BY

<u>Install Soil Borings</u>					
	<u>Time</u>	<u>Ppm</u>		<u>Time</u>	<u>Ppm</u>
SB-1			SB-5		
1'	1132	0.0	1'	1143	0.0
2'	1133	0.0	2'	1144	0.0
3'	1134	0.0	3'	1145	0.0
SB-2			- GPS in Soil Borings		
1'	N4		1200 offset		
2'	1135	0.0			
3'	1136	0.0			
SB-3					
1'	1137	0.0 0.2			
2'	1138	0.0			
3'	1139	0.0			
SB-4					
1'	1140	0.0			
2'	1141	0.0			
3'	1142	0.0			

Site Photographs
Enterprise Products Lateral K-34 Pipeline Release



Photo 1: View of the severed pipeline and release area.



Photo 2: View of the release area.



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

October 07, 2013

Thomas Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-7535
FAX:

RE: Enterprise Lateral K-34

OrderNo.: 1310156

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/2/2013 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1310156

Date Reported: 10/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-1 @ 3"

Project: Enterprise Lateral K-34

Collection Date: 10/1/2013 11:34:00 AM

Lab ID: 1310156-001

Matrix: SOIL

Received Date: 10/2/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/4/2013 7:37:08 PM	9632
Surr: DNOP	85.0	63-147		%REC	1	10/4/2013 7:37:08 PM	9632
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2013 3:11:05 PM	9636
Surr: BFB	100	80-120		%REC	1	10/4/2013 3:11:05 PM	9636
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/4/2013 3:11:05 PM	9636
Toluene	ND	0.048		mg/Kg	1	10/4/2013 3:11:05 PM	9636
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2013 3:11:05 PM	9636
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2013 3:11:05 PM	9636
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	10/4/2013 3:11:05 PM	9636

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1310156

Date Reported: 10/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-2 @ 3'

Project: Enterprise Lateral K-34

Collection Date: 10/1/2013 11:36:00 AM

Lab ID: 1310156-002

Matrix: SOIL

Received Date: 10/2/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/4/2013 7:59:09 PM	9632
Surr: DNOP	94.3	63-147		%REC	1	10/4/2013 7:59:09 PM	9632
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2013 5:48:29 PM	9636
Surr: BFB	100	80-120		%REC	1	10/4/2013 5:48:29 PM	9636
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/4/2013 5:48:29 PM	9636
Toluene	ND	0.049		mg/Kg	1	10/4/2013 5:48:29 PM	9636
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2013 5:48:29 PM	9636
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2013 5:48:29 PM	9636
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	10/4/2013 5:48:29 PM	9636

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1310156

Date Reported: 10/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-3 @ 3'

Project: Enterprise Lateral K-34

Collection Date: 10/1/2013 11:39:00 AM

Lab ID: 1310156-003

Matrix: SOIL

Received Date: 10/2/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/4/2013 8:21:10 PM	9632
Surr: DNOP	94.6	63-147		%REC	1	10/4/2013 8:21:10 PM	9632
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2013 6:18:33 PM	9636
Surr: BFB	106	80-120		%REC	1	10/4/2013 6:18:33 PM	9636
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/4/2013 6:18:33 PM	9636
Toluene	ND	0.047		mg/Kg	1	10/4/2013 6:18:33 PM	9636
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2013 6:18:33 PM	9636
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2013 6:18:33 PM	9636
Surr: 4-Bromofluorobenzene	115	80-120		%REC	1	10/4/2013 6:18:33 PM	9636

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1310156

Date Reported: 10/7/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-4 @ 3'

Project: Enterprise Lateral K-34

Collection Date: 10/1/2013 11:42:00 AM

Lab ID: 1310156-004

Matrix: SOIL

Received Date: 10/2/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/4/2013 8:43:18 PM	9632
Surr: DNOP	94.3	63-147		%REC	1	10/4/2013 8:43:18 PM	9632
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2013 6:48:46 PM	9636
Surr: BFB	102	80-120		%REC	1	10/4/2013 6:48:46 PM	9636
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/4/2013 6:48:46 PM	9636
Toluene	ND	0.048		mg/Kg	1	10/4/2013 6:48:46 PM	9636
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2013 6:48:46 PM	9636
Xylenes, Total	ND	0.096		mg/Kg	1	10/4/2013 6:48:46 PM	9636
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	10/4/2013 6:48:46 PM	9636

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310156

Date Reported: 10/7/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SB-5 @ 3'

Project: Enterprise Lateral K-34

Collection Date: 10/1/2013 11:45:00 AM

Lab ID: 1310156-005

Matrix: SOIL

Received Date: 10/2/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/4/2013 9:05:17 PM	9632
Surr: DNOP	95.5	63-147		%REC	1	10/4/2013 9:05:17 PM	9632
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2013 7:18:59 PM	9636
Surr: BFB	98.1	80-120		%REC	1	10/4/2013 7:18:59 PM	9636
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	10/4/2013 7:18:59 PM	9636
Toluene	ND	0.046		mg/Kg	1	10/4/2013 7:18:59 PM	9636
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2013 7:18:59 PM	9636
Xylenes, Total	ND	0.092		mg/Kg	1	10/4/2013 7:18:59 PM	9636
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	10/4/2013 7:18:59 PM	9636

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
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310156

07-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral K-34

Sample ID: LCS-9632	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 9632	RunNo: 13798								
Prep Date: 10/3/2013	Analysis Date: 10/3/2013	SeqNo: 394361	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	77.2	77.1	128			
Surr: DNOP	5.4		5.000		108	63	147			

Sample ID: MB-9632	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 9632	RunNo: 13798								
Prep Date: 10/3/2013	Analysis Date: 10/3/2013	SeqNo: 394539	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		104	63	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310156

07-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral K-34

Sample ID: MB-9636	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396249	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	80	120			

Sample ID: LCS-9636	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396250	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	91.5	74.5	126			
Surr: BFB	1100		1000		106	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310156

07-Oct-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral K-34

Sample ID: MB-9636	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396276	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			

Sample ID: LCS-9636	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396277	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.4	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID: 1310156-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-1 @ 3"	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396279	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.049	0.9718	0	94.0	67.3	145			
Toluene	0.93	0.049	0.9718	0	96.0	66.8	144			
Ethylbenzene	0.97	0.049	0.9718	0	99.5	61.9	153			
Xylenes, Total	3.0	0.097	2.915	0	103	65.8	149			
Surr: 4-Bromofluorobenzene	1.1		0.9718		116	80	120			

Sample ID: 1310156-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SB-1 @ 3"	Batch ID: 9636	RunNo: 13860								
Prep Date: 10/3/2013	Analysis Date: 10/4/2013	SeqNo: 396280	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.049	0.9737	0	87.0	67.3	145	7.64	20	
Toluene	0.85	0.049	0.9737	0	87.4	66.8	144	9.23	20	
Ethylbenzene	0.88	0.049	0.9737	0	90.2	61.9	153	9.53	20	
Xylenes, Total	2.8	0.097	2.921	0	94.3	65.8	149	8.66	20	
Surr: 4-Bromofluorobenzene	1.1		0.9737		114	80	120	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1310156

RcptNo: 1

Received by/date: AG 10/00/13

Logged By: **Michelle Garcia** 10/2/2013 10:00:00 AM *Michelle Garcia*

Completed By: **Michelle Garcia** 10/3/2013 8:42:31 AM *Michelle Garcia*

Reviewed By: *[Signature]* 10/03/13

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☒ NA ☐

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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: SMA

Mailing Address: 2101 San Juan Blvd.

Farmington, NM 87401

Phone #: 505. 325. 7535

email or Fax#: tom.long@Soudaville.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Enterprise
Lateral K-34

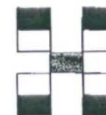
Project #: 5122104

Project Manager: Thomas Long

Sampler: TJL

On Ice: ☒ Yes ☐ No

Sample Temperature: 10



**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 Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTE	BTEX + MTE	TPH 8015B	TPH (Method	EDB (Method	PAH's (8310	RCRA 8 Met	Anions (F, Cl	8081 Pesticide	8260B (VOA	8270 (Semi-			Air Bubbles
10-1-13	1134	Soil	SB-1@3'	40250	cool	1310156 -001	X	X												
	1136		SB-2@3'			-002	X	X												
	1137		SB-3@3'			-003	X	X												
	1142		SB-4@3'			-004	X	X												
	1145		SB-5@3'			-005	X	X												

Date: 0-1-13 Time: 1700 Relinquished by: Thomas Long

Received by: Christine Walters Date: 10/1/13 Time: 1700

Remarks: Bill To Enterprise

Date: 1/1/13 Time: 1740 Relinquished by: Christine Walters

Received by: [Signature] Date: 10/02/13 Time: 10:00

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.

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

State of New Mexico
Energy Minerals and Natural
Resources

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

Form C-141
Revised April 3, 2017

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

MAR 09 2018

Release Notification and Corrective Action DISTRICT III

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lindrith Compressor Station	Facility Type Natural Gas Compressor Station	
Surface Owner Jicarilla Apache Tribe	Mineral Owner Jicarilla Apache Tribe	Serial Number:

LOCATION OF RELEASE

Unit Letter I	Section 18	Township 24N	Range 5W	Feet from the 1707	North/South Line South	Feet from the 735	East/West Line East	County Rio Arriba
-------------------------	----------------------	------------------------	--------------------	---------------------------------	-------------------------------------	--------------------------------	----------------------------------	-----------------------------

Latitude 36.310191 Longitude 107.395614 NAD83

NATURE OF RELEASE

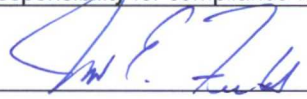
Type of Release: Condensate and Produced Water	Volume of Release 10-15 BBLs of Condensate/Water	Volume Recovered None
Source of Release Facility Blowdown Vent Pipe	Date and Hour of Occurrence 9/27/2017 @ 8:30 a.m.	Date and Hour of Discovery 9/27/2017 @ 8:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? : Notification to Vanessa Fields – NMOCD; Hobson Sandoval - JAEPO	
By Whom? Thomas Long	Date and Hour 10/12/2017 @ 0830	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On September 27, 2017, condensate and produced water was released from the facility blowdown vent pipe during ESD testing. Upon receipt of laboratory analysis, Enterprise determined that this release was reportable on October 11, 2017 due to the volume of impacted soil.

Describe Area Affected and Cleanup Action Taken.* An area of approximately 35 feet long by 35 feet wide was impacted by condensate and produced water. The contaminant mass was removed by mechanical excavation. The final excavation dimensions measured approximately 112 feet long by 70 feet by 2 feet deep. Approximately 342 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party corrective action report is included with this "Final" C-141.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Jon E. Fields	Approved by Environmental Specialist:		
Title: Director, Environmental	Approval Date:	Expiration Date:	
E-mail Address: jefields@eprod.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3/5/2018 6684	Phone: (713) 381-		

* Attach Additional Sheets If Necessary

NVF-1728530935

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CORRECTIVE ACTION REPORT

Property:

Lindrith Compressor Station Vent Stack Release (2017)
SE ¼, S18 T24N R5W
Rio Arriba County, New Mexico

February 5, 2018
Apex Project No. 725040112345

Prepared for:

Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long

Prepared by:


Rane Deechilly
Project Scientist

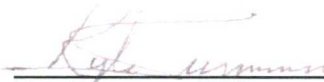

Kyle Summers, CPG
Branch Manager / Senior Project
Manager

TABLE OF CONTENTS

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6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE	5

LIST OF APPENDICES

Appendix A: Figures

- Figure 1 Topographic Map
- Figure 2 Site Vicinity Map
- Figure 3 Site Map with Soil Analytical Results

Appendix B: Executed C-138 Solid Waste Acceptance Form

Appendix C: Photographic Documentation

Appendix D: Table

Appendix E: Laboratory Data Sheets & Chain of Custody Documentation

CORRECTIVE ACTION REPORT

Lindrith Compressor Station Vent Stack Release (2017)

SE ¼, S18 T24N R5W
Rio Arriba County, New Mexico

Apex Project No. 725040112345

1.0 INTRODUCTION

1.1 Site Description & Background

The Enterprise Field Services, LLC (Enterprise) Lindrith Compressor Station is located off Jicarilla Road J-36, approximately 7.2 miles west of State Highway 537, in the southeast (SE) ¼ of Section 18, Township 24 North, Range 5 West (36.310191N, 107.395616W), Rio Arriba County, Jicarilla Apache Nation, New Mexico, referred to hereinafter as the "Site". The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the 1950s and currently includes three (3) compressor engines, a dehydration unit, one (1) bullet storage tank, a condensate storage tank battery (which includes eight (8) condensate storage tanks), one (1) below-grade tank, inlet scrubbers, an out-of-service water tower, and office/shop buildings.

On September 27, 2017, a release was identified at the Lindrith Compressor Station vent stack. On October 26, 2017, Enterprise initiated corrective action activities to remediate potential petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the corrective actions was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) *Remediation Action Levels* (RALs) using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

The Site is under the jurisdiction of the Jicarilla Apache Nation Environmental Protection Office (JANEPO) and the New Mexico EMNRD OCD. In the absence of published JANEPO regulatory guidance, Apex TITAN Inc. (Apex) references the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

Based on Apex's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 30. The ranking is based on the following information:

- The depth to the initial groundwater-bearing zone is <50 feet below surface grade (bgs), based on groundwater monitoring wells at the Site, resulting in a ranking score of "20" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. A livestock well that is currently used to supply a stock pond that is located approximately 850 feet southeast of the Site. These proximities result in a wellhead protection area ranking score of "0".
- The release point is located approximately 4,485 feet from Largo Wash, and approximately 850 feet from the stock pond and livestock well, resulting in a distance to surface water ranking score of "10".

Based on the site ranking, the New Mexico EMNRD OCD RALs for soils located at the Site include: 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total benzene, toluene, ethylbenzene, and total xylenes (BTEX) and 100 mg/kg for combined total petroleum hydrocarbon (TPH) gasoline range organics (GRO) diesel range organics (DRO) and motor oil/lube oil range organics (MRO).

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On October 26, 2017, Enterprise initiated corrective action activities to remediate potential petroleum hydrocarbon impact resulting from the release. During the corrective action activities, Halo Services, Inc., provided heavy equipment and labor support, and Apex provided environmental consulting support.

The affected area was excavated to approximately one (1) to two (2) feet bgs. On October 30, 2017, 13 composite soil samples (CS-1 through CS-13) were collected from the base and sidewalls of the excavation for laboratory analysis. On October 31, 2017, five (5) additional composite soil samples (CS-14 through CS-16) were collected for laboratory analysis. Soils

directly beneath the vent stack are potentially impacted, but were not removed due to concerns by Enterprise engineers regarding the structural stability of the planned vent stack modifications.

The overall final excavation measured approximately 112 feet long by 70 feet wide at the maximum extents. The maximum depth of the excavation was approximately two (2) feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand.

A total of approximately 342 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm (Envirotech) near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. The excavation was backfilled with imported fill and contoured to surrounding grade.

Figure 3 is a map with soil sample locations that depicts the approximate location of the excavated area in relation to the vent stack (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.2 Soil Sampling Program

Apex field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system to guide excavation extents.

Apex's soil sampling program included the collection of 18 composite soil samples (CS-1 through CS-18) from the excavation.

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico under proper chain-of-custody procedures.

3.3 Laboratory Analytical Methods

The composite soil samples were analyzed for BTEX using EPA SW-846 Method #8021, and TPH GRO/DRO/MRO using EPA SW-846 Method #8015.

Laboratory results are summarized in **Table 1**, included in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by JANEPO and the New Mexico EMNRD OCD. In the absence of published JANEPO regulatory guidance, Apex referenced the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the New Mexico EMNRD OCD rules, specifically New Mexico Administrative Code 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the BTEX and TPH concentrations or practical quantitation limits (PQLs) associated with the composite soil samples to the New Mexico EMNRD OCD *RALs* for sites having a total ranking score of “30”.

- The laboratory analyses of composite soil samples collected from soils remaining in place, potentially excluding soils directly beneath the vent stack, do not indicate benzene concentrations above the PQLs, which are below the New Mexico EMNRD OCD *RAL* of 10 milligrams per kilogram (mg/kg).
- The laboratory analyses of the composite soil samples from soils remaining in place, excluding soils directly beneath the vent stack, do not indicate total BTEX concentrations above the PQLs, which are below the New Mexico EMNRD OCD *RAL* of 50 mg/kg.
- The laboratory analyses of the composite soil samples from soils remaining in place, excluding soils directly beneath the vent stack, do not indicate combined TPH GRO/DRO/MRO concentrations above the PQLs, which are below the New Mexico EMNRD OCD *RAL* of 100 mg/kg.

Composite soil sample laboratory analytical results are provided in **Table 1** in **Appendix D**.

5.0 FINDINGS AND RECOMMENDATIONS

The Enterprise Lindrith Compressor Station is located off Jicarilla Road J-36, approximately 7.2 miles west of State Highway 537, in the SE ¼ of Section 18, Township 24 North, Range 5 West, Rio Arriba County, Jicarilla Apache Nation, New Mexico. The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the 1950s and currently includes three (3) compressor engines, a dehydration unit, one (1) bullet storage tank, a condensate storage tank battery (which includes eight (8) condensate storage tanks), one (1) below-grade tank, inlet scrubbers, an out-of-service water tower, and office/shop buildings.

On September 27, 2017, a release was identified at the Lindrith Compressor Station vent stack. On October 26, 2017, Enterprise initiated corrective action activities to remediate potential petroleum hydrocarbon impact resulting from the release.

- The primary objective of the corrective actions was to reduce COC concentrations in the on-Site soils to below the New Mexico EMNRD OCD *RALs* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand.
- The final excavation measured approximately 112 feet long by 70 feet wide at the maximum extents. The maximum depth of the excavation was approximately two (2) feet bgs.
- Prior to backfilling, 18 composite soil samples were collected for laboratory analyses. Based on analytical results, soils remaining in place, potentially excluding soils directly

beneath the vent stack, do not exhibit BTEX or TPH GRO/DRO/MRO concentrations above the New Mexico EMNRD OCD RALs for a site ranking of "30".

- A total of approximately 342 cubic yards of soil were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and contoured to the approximate surrounding grade.
- Soils directly beneath the vent stack were not removed due to structural stability and safety concerns. Potentially impacted soils may be present beneath the structural supports of the vent stack.

Based on field observations and laboratory analytical results, no additional corrective action with respect to the excavated area of soil impact appears warranted at this time. Due to the shallow vertical penetration of the release liquids into the substrate, it also appears unlikely that the soils remaining in place beneath the structural supports of the vent stack pose a significant environmental threat.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

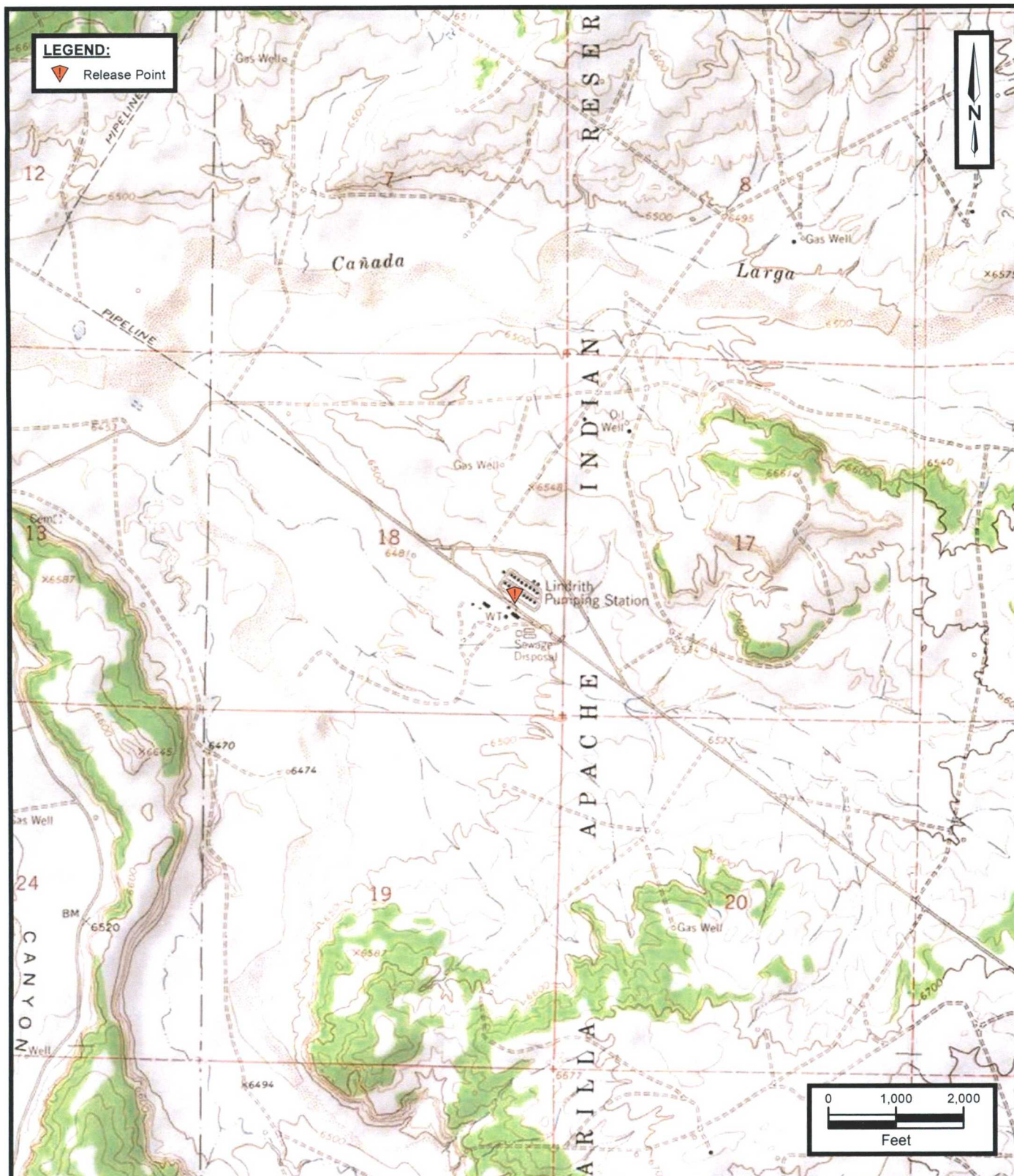
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed or described herein. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



**Lindrith Compressor Station
Vent Stack Release (2017)**
SE1/4, S18 T24N R5W
Rio Arriba County, New Mexico
36.310191 N, 107.395616 W



Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

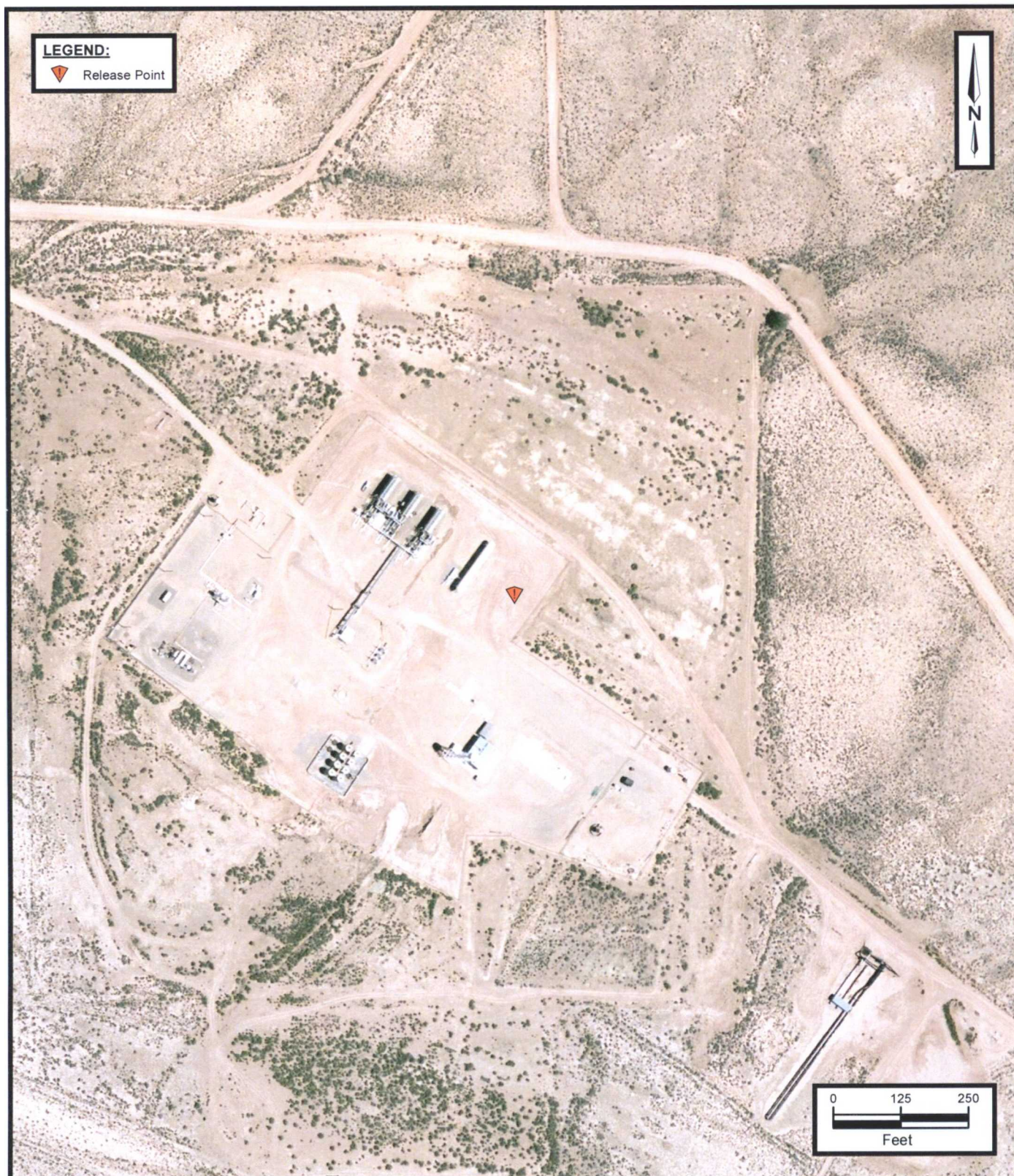
FIGURE 1

Topographic Map

Service Layer Credits:

Copyright © 2013 National Geographic Society, i-cubed, Tafoya Canyon
and Otero Store New Mexico 7.5-Minute Quadrangles 1965

Project No. 725040112345



**Lindrith Compressor Station
 Vent Stack Release (2017)**
 SE1/4, S18 T24N R5W
 Rio Arriba County, New Mexico
 36.310191 N, 107.395616 W

Project No. 725040112345



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

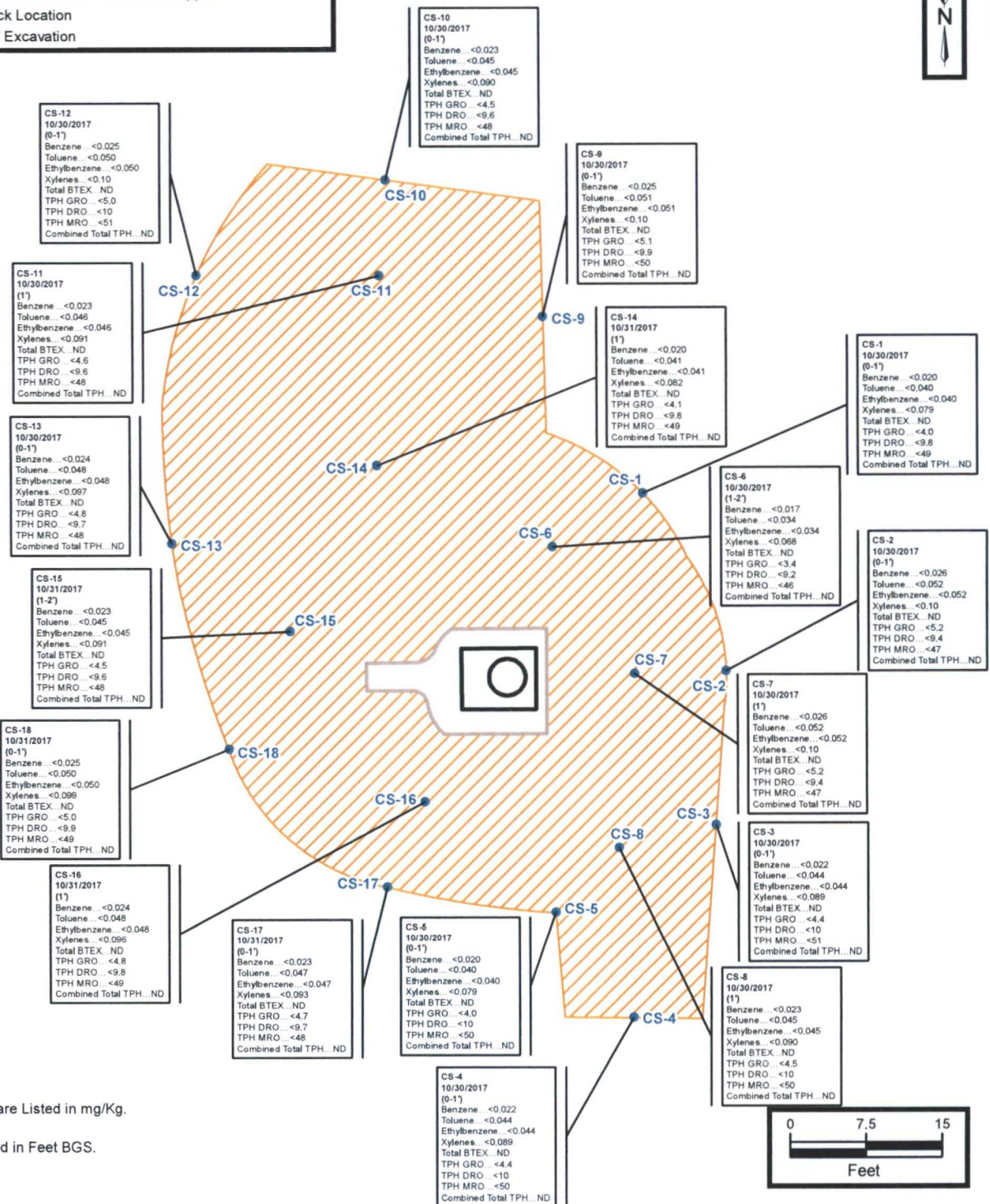
FIGURE 2

Site Vicinity Map

Service Layer Credits:
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
 CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User
 Community, Aerial Photograph June 2016

LEGEND:

- Excavation Confirmation Composite Soil Sample Location
- Soil Undisturbed Due to Structural Support
- Vent Stack Location
- ▨ Extent of Excavation



**Lindrith Compressor Station
Vent Stack Release (2017)**
SE1/4, S18 T24N R5W
Rio Arriba County, New Mexico
36.310191 N, 107.395616 W



Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3

Site Map with Soil Analytical Results

Project No. 725040112345

APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

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

97057-0868

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: Lindrith Compressor Station <div style="text-align: right;">Nov. 2017</div>
3. Location of Material (Street Address, City, State or ULSTR): UL I Section 18 T24N R 5W; 36.310191, -107.395614
4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas vent stack. Estimated Volume <u>50</u> <u>yd</u> ³ bbls Known Volume (to be entered by the operator at the end of the haul) <u>342</u> <u>yd</u> ³ bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> <i>Thomas Long</i> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> <i>Thomas Long</i> 10-26-17, representative for <u>Enterprise Field Services, LLC</u> authorize <u>Envirotech, Inc.</u> to complete the required Generator Signature testing/sign the Generator Waste Testing Certification. I, <u>[Signature]</u> representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Foutz and Bursum <u>Kelly Oil Field, Riley, ACE, IMI, Envirotech, Halo</u>

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Environmental Manager DATE: 11/2/17

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

Photograph 1

View of in-process excavation activities, facing northwest.



Photograph 2

View of in-process excavation activities, facing southwest.



Photograph 3

View of in-process excavation activities, facing northwest.



Photograph 4

View of the final excavation, facing northwest.



Photograph 5

View of the final excavation, facing south.



Photograph 6

View of the final excavation, facing west.



APPENDIX D

Table

TABLE 1
Lindrith Compressor Station Vent Stack Release (2017)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Combined Total TPH (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level				10	NE	NE	NE	50				100
Excavation Confirmation Soil Samples												
CS-1	10.30.17	C	0 to 1	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.8	<49	ND
CS-2	10.30.17	C	0 to 1	<0.026	<0.052	<0.052	<0.10	ND	<5.2	<9.4	<47	ND
CS-3	10.30.17	C	0 to 1	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<10	<51	ND
CS-4	10.30.17	C	0 to 1	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<10	<50	ND
CS-5	10.30.17	C	0 to 1	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<10	<50	ND
CS-6	10.30.17	C	1 to 2	<0.017	<0.034	<0.034	<0.068	ND	<3.4	<9.2	<46	ND
CS-7	10.30.17	C	1	<0.026	<0.052	<0.052	<0.10	ND	<5.2	<9.4	<47	ND
CS-8	10.30.17	C	1	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<10	<50	ND
CS-9	10.30.17	C	0 to 1	<0.025	<0.051	<0.051	<0.10	ND	<5.1	<9.9	<50	ND
CS-10	10.30.17	C	0 to 1	<0.023	<0.045	<0.045	<0.090	ND	<4.5	<9.6	<48	ND
CS-11	10.30.17	C	1	<0.023	<0.046	<0.046	<0.091	ND	<4.6	<9.6	<48	ND
CS-12	10.30.17	C	0 to 1	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	<51	ND
CS-13	10.30.17	C	0 to 1	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<48	ND
CS-14	10.31.17	C	1	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.8	<49	ND
CS-15	10.31.17	C	1 to 2	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.6	<48	ND
CS-16	10.31.17	C	1	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.8	<49	ND
CS-17	10.31.17	C	0 to 1	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.7	<48	ND
CS-18	10.31.17	C	0 to 1	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.9	<49	ND

ND = Not Detected above the Practical Quantitation Limits

NE = Not established

mg/kg = milligram per kilogram

Appendix E

Laboratory Data Sheets
& Chain of Custody Documentation



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

November 02, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Lindrith Vent Stack

OrderNo.: 1710F58

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/31/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

CLIENT: APEX TITAN

Client Sample ID: CS-1

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:15:00 PM

Lab ID: 1710F58-001

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/31/2017 1:00:22 PM	34718
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/31/2017 1:00:22 PM	34718
Surr: DNOP	87.0	70-130		%Rec	1	10/31/2017 1:00:22 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/31/2017 9:12:04 AM	G46774
Surr: BFB	79.5	15-316		%Rec	1	10/31/2017 9:12:04 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/31/2017 9:12:04 AM	B46774
Toluene	ND	0.040		mg/Kg	1	10/31/2017 9:12:04 AM	B46774
Ethylbenzene	ND	0.040		mg/Kg	1	10/31/2017 9:12:04 AM	B46774
Xylenes, Total	ND	0.079		mg/Kg	1	10/31/2017 9:12:04 AM	B46774
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	10/31/2017 9:12:04 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-2

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:25:00 PM

Lab ID: 1710F58-002

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/31/2017 11:04:29 AM	34718
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2017 11:04:29 AM	34718
Surr: DNOP	91.5	70-130		%Rec	1	10/31/2017 11:04:29 AM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	10/31/2017 9:35:29 AM	G46774
Surr: BFB	84.0	15-316		%Rec	1	10/31/2017 9:35:29 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	10/31/2017 9:35:29 AM	B46774
Toluene	ND	0.052		mg/Kg	1	10/31/2017 9:35:29 AM	B46774
Ethylbenzene	ND	0.052		mg/Kg	1	10/31/2017 9:35:29 AM	B46774
Xylenes, Total	ND	0.10		mg/Kg	1	10/31/2017 9:35:29 AM	B46774
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	10/31/2017 9:35:29 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-3

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:35:00 PM

Lab ID: 1710F58-003

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2017 11:26:30 AM	34718
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/31/2017 11:26:30 AM	34718
Surr: DNOP	88.8	70-130		%Rec	1	10/31/2017 11:26:30 AM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	10/31/2017 9:58:54 AM	G46774
Surr: BFB	81.8	15-316		%Rec	1	10/31/2017 9:58:54 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	10/31/2017 9:58:54 AM	B46774
Toluene	ND	0.044		mg/Kg	1	10/31/2017 9:58:54 AM	B46774
Ethylbenzene	ND	0.044		mg/Kg	1	10/31/2017 9:58:54 AM	B46774
Xylenes, Total	ND	0.089		mg/Kg	1	10/31/2017 9:58:54 AM	B46774
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	10/31/2017 9:58:54 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-4

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:45:00 PM

Lab ID: 1710F58-004

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2017 11:48:21 AM	34718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2017 11:48:21 AM	34718
Surr: DNOP	95.0	70-130		%Rec	1	10/31/2017 11:48:21 AM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	10/31/2017 10:22:21 AM	G46774
Surr: BFB	82.3	15-316		%Rec	1	10/31/2017 10:22:21 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	10/31/2017 10:22:21 AM	B46774
Toluene	ND	0.044		mg/Kg	1	10/31/2017 10:22:21 AM	B46774
Ethylbenzene	ND	0.044		mg/Kg	1	10/31/2017 10:22:21 AM	B46774
Xylenes, Total	ND	0.089		mg/Kg	1	10/31/2017 10:22:21 AM	B46774
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	10/31/2017 10:22:21 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-5

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:55:00 PM

Lab ID: 1710F58-005

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2017 12:10:17 PM	34718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2017 12:10:17 PM	34718
Surr: DNOP	91.7	70-130		%Rec	1	10/31/2017 12:10:17 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/31/2017 10:45:52 AM	G46774
Surr: BFB	85.0	15-316		%Rec	1	10/31/2017 10:45:52 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/31/2017 10:45:52 AM	B46774
Toluene	ND	0.040		mg/Kg	1	10/31/2017 10:45:52 AM	B46774
Ethylbenzene	ND	0.040		mg/Kg	1	10/31/2017 10:45:52 AM	B46774
Xylenes, Total	ND	0.079		mg/Kg	1	10/31/2017 10:45:52 AM	B46774
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	10/31/2017 10:45:52 AM	B46774

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-6

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 3:05:00 PM

Lab ID: 1710F58-006

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/31/2017 12:32:10 PM	34718
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/31/2017 12:32:10 PM	34718
Surr: DNOP	90.1	70-130		%Rec	1	10/31/2017 12:32:10 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	10/31/2017 11:09:15 AM	G46774
Surr: BFB	82.0	15-316		%Rec	1	10/31/2017 11:09:15 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	10/31/2017 11:09:15 AM	B46774
Toluene	ND	0.034		mg/Kg	1	10/31/2017 11:09:15 AM	B46774
Ethylbenzene	ND	0.034		mg/Kg	1	10/31/2017 11:09:15 AM	B46774
Xylenes, Total	ND	0.068		mg/Kg	1	10/31/2017 11:09:15 AM	B46774
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	10/31/2017 11:09:15 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** CS-7**Project:** Lindrith Vent Stack**Collection Date:** 10/30/2017 3:15:00 PM**Lab ID:** 1710F58-007**Matrix:** MEOH (SOIL)**Received Date:** 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/31/2017 12:54:16 PM	34718
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/31/2017 12:54:16 PM	34718
Surr: DNOP	92.6	70-130		%Rec	1	10/31/2017 12:54:16 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	10/31/2017 11:32:41 AM	G46774
Surr: BFB	85.6	15-316		%Rec	1	10/31/2017 11:32:41 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	10/31/2017 11:32:41 AM	B46774
Toluene	ND	0.052		mg/Kg	1	10/31/2017 11:32:41 AM	B46774
Ethylbenzene	ND	0.052		mg/Kg	1	10/31/2017 11:32:41 AM	B46774
Xylenes, Total	ND	0.10		mg/Kg	1	10/31/2017 11:32:41 AM	B46774
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	10/31/2017 11:32:41 AM	B46774

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-8

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 3:25:00 PM

Lab ID: 1710F58-008

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2017 1:16:11 PM	34718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2017 1:16:11 PM	34718
Surr: DNOP	89.4	70-130		%Rec	1	10/31/2017 1:16:11 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	10/31/2017 11:56:14 AM	G46774
Surr: BFB	86.0	15-316		%Rec	1	10/31/2017 11:56:14 AM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/31/2017 11:56:14 AM	B46774
Toluene	ND	0.045		mg/Kg	1	10/31/2017 11:56:14 AM	B46774
Ethylbenzene	ND	0.045		mg/Kg	1	10/31/2017 11:56:14 AM	B46774
Xylenes, Total	ND	0.090		mg/Kg	1	10/31/2017 11:56:14 AM	B46774
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	10/31/2017 11:56:14 AM	B46774

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-9

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 3:35:00 PM

Lab ID: 1710F58-009

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/31/2017 1:38:22 PM	34718
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/31/2017 1:38:22 PM	34718
Surr: DNOP	93.3	70-130		%Rec	1	10/31/2017 1:38:22 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	10/31/2017 12:19:49 PM	G46774
Surr: BFB	85.0	15-316		%Rec	1	10/31/2017 12:19:49 PM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/31/2017 12:19:49 PM	B46774
Toluene	ND	0.051		mg/Kg	1	10/31/2017 12:19:49 PM	B46774
Ethylbenzene	ND	0.051		mg/Kg	1	10/31/2017 12:19:49 PM	B46774
Xylenes, Total	ND	0.10		mg/Kg	1	10/31/2017 12:19:49 PM	B46774
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	10/31/2017 12:19:49 PM	B46774

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-10

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 3:45:00 PM

Lab ID: 1710F58-010

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/31/2017 2:00:19 PM	34718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2017 2:00:19 PM	34718
Surr: DNOP	91.5	70-130		%Rec	1	10/31/2017 2:00:19 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	10/31/2017 12:43:22 PM	G46774
Surr: BFB	83.4	15-316		%Rec	1	10/31/2017 12:43:22 PM	G46774
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/31/2017 12:43:22 PM	B46774
Toluene	ND	0.045		mg/Kg	1	10/31/2017 12:43:22 PM	B46774
Ethylbenzene	ND	0.045		mg/Kg	1	10/31/2017 12:43:22 PM	B46774
Xylenes, Total	ND	0.090		mg/Kg	1	10/31/2017 12:43:22 PM	B46774
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	10/31/2017 12:43:22 PM	B46774

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-11

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:00:00 PM

Lab ID: 1710F58-011

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/31/2017 2:22:30 PM	34718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2017 2:22:30 PM	34718
Surr: DNOP	89.5	70-130		%Rec	1	10/31/2017 2:22:30 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/31/2017 9:59:41 AM	G46775
Surr: BFB	103	15-316		%Rec	1	10/31/2017 9:59:41 AM	G46775
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/31/2017 9:59:41 AM	B46775
Toluene	ND	0.046		mg/Kg	1	10/31/2017 9:59:41 AM	B46775
Ethylbenzene	ND	0.046		mg/Kg	1	10/31/2017 9:59:41 AM	B46775
Xylenes, Total	ND	0.091		mg/Kg	1	10/31/2017 9:59:41 AM	B46775
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/31/2017 9:59:41 AM	B46775

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

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

Analytical Report

Lab Order 1710F58

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-12

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:05:00 PM

Lab ID: 1710F58-012

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/31/2017 2:44:31 PM	34718
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	10/31/2017 2:44:31 PM	34718
Surr: DNOP	95.8	70-130		%Rec	1	10/31/2017 2:44:31 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/31/2017 10:23:32 AM	G46775
Surr: BFB	105	15-316		%Rec	1	10/31/2017 10:23:32 AM	G46775
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/31/2017 10:23:32 AM	B46775
Toluene	ND	0.050		mg/Kg	1	10/31/2017 10:23:32 AM	B46775
Ethylbenzene	ND	0.050		mg/Kg	1	10/31/2017 10:23:32 AM	B46775
Xylenes, Total	ND	0.10		mg/Kg	1	10/31/2017 10:23:32 AM	B46775
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/31/2017 10:23:32 AM	B46775

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-13

Project: Lindrith Vent Stack

Collection Date: 10/30/2017 2:10:00 PM

Lab ID: 1710F58-013

Matrix: MEOH (SOIL)

Received Date: 10/31/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/31/2017 3:06:36 PM	34718
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2017 3:06:36 PM	34718
Surr: DNOP	95.6	70-130		%Rec	1	10/31/2017 3:06:36 PM	34718
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/31/2017 10:47:25 AM	G46775
Surr: BFB	105	15-316		%Rec	1	10/31/2017 10:47:25 AM	G46775
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/31/2017 10:47:25 AM	B46775
Toluene	ND	0.048		mg/Kg	1	10/31/2017 10:47:25 AM	B46775
Ethylbenzene	ND	0.048		mg/Kg	1	10/31/2017 10:47:25 AM	B46775
Xylenes, Total	ND	0.097		mg/Kg	1	10/31/2017 10:47:25 AM	B46775
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/31/2017 10:47:25 AM	B46775

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710F58

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	LCS-34718		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 34718		RunNo: 46767					
Prep Date:	10/31/2017		Analysis Date: 10/31/2017		SeqNo: 1490982		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	93.0	73.2	114			
Surr: DNOP	4.2		5.000		84.6	70	130			

Sample ID	MB-34718		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	34718		RunNo:	46767				
Prep Date:	10/31/2017		Analysis Date:	10/31/2017		SeqNo:	1490986		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	8.6		10.00		85.8	70	130				

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710F58

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G46775	RunNo: 46775								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491516		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		100	15	316			

Sample ID 2.5UG GRO CCV	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G46775	RunNo: 46775								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491517		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	75.9	131			
Surr: BFB	1100		1000		110	15	316			

Sample ID RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G46774	RunNo: 46774								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491561		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		83.3	15	316			

Sample ID 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G46774	RunNo: 46774								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491562		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.0	75.9	131			
Surr: BFB	950		1000		94.8	15	316			

Sample ID 1710F58-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: CS-1	Batch ID: G46774	RunNo: 46774								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491563		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.0	19.78	0	99.9	77.8	128			
Surr: BFB	750		791.1		94.5	15	316			

Sample ID 1710F58-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: CS-1	Batch ID: G46774	RunNo: 46774								
Prep Date:	Analysis Date: 10/31/2017	SeqNo: 1491564		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710F58

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	1710F58-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	CS-1	Batch ID:	G46774	RunNo:	46774					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491564	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.0	19.78	0	98.9	77.8	128	1.05	20	
Surr: BFB	770		791.1		97.9	15	316	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710F58

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B46775	RunNo:	46775					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491539	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		100	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B46775	RunNo:	46775					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491540	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	93.5	77.3	128			
Toluene	0.97	0.050	1.000	0	97.0	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B46774	RunNo:	46774					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491592	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	0.96		1.000		96.1	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B46774	RunNo:	46774					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491593	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	93.4	77.3	128			
Toluene	0.93	0.050	1.000	0	92.8	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	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 Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1710F58

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	1710F58-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	CS-2	Batch ID:	B46774	RunNo:	46774					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491594	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.026	1.046	0	121	80.9	132			
Toluene	1.3	0.052	1.046	0.007845	119	79.8	136			
Ethylbenzene	1.2	0.052	1.046	0	119	79.4	140			
Xylenes, Total	3.7	0.10	3.138	0	119	78.5	142			
Surr: 4-Bromofluorobenzene	1.0		1.046		95.2	80	120			

Sample ID	1710F58-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	CS-2	Batch ID:	B46774	RunNo:	46774					
Prep Date:		Analysis Date:	10/31/2017	SeqNo:	1491613	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.026	1.046	0	118	80.9	132	2.31	20	
Toluene	1.2	0.052	1.046	0.007845	117	79.8	136	1.92	20	
Ethylbenzene	1.2	0.052	1.046	0	115	79.4	140	3.64	20	
Xylenes, Total	3.7	0.10	3.138	0	117	78.5	142	2.00	20	
Surr: 4-Bromofluorobenzene	1.0		1.046		95.8	80	120	0	0	

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1710F58

RcptNo: 1

Received By: Richie Eriacho 10/31/2017 8:15:00 AM
Completed By: Ashley Gallegos 10/31/2017 8:39:18 AM
Reviewed By: ENM 10/31/17

12 <
AS

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


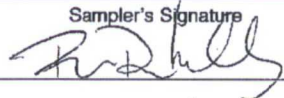
Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:


18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX		Laboratory: <u>H&H Environmental Lab</u>		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); display: inline-block;"> BTEX 6021 TPH GLC/APRO/PAH 8015 </div>										Lab use only Due Date:											
		Address: <u>4901 Hawkins NE</u> <u>Albuquerque NM 87109</u>												Temp. of coolers when received (C°): <u>1.4</u>											
Office Location <u>606 S Rio Grande Suite A</u> <u>Aztec NM 87410</u>		Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u>												Page <u>1</u> of <u>2</u>											
Project Manager <u>K Summers</u>		PO/ISO #: <u>2504010345</u>																							
Sampler's Name <u>Ranee Doeckhilly</u>		Sampler's Signature 																							
Proj. No. <u>2504010345</u>		Project Name <u>Link with Vent Stack</u>		No/Type of Containers																					
Matrix	Date	Time	Coed	Gard	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)												
S	10/30/17	1415	X		CS-1						1	X	X	1710F58-001											
S	10/30/17	1425	X		CS-2						1	X	X	-002											
S	10/30/17	1435	X		CS-3						1	X	X	-003											
S	10/30/17	1445	X		CS-4						1	X	X	-004											
S	10/30/17	1455	X		CS-5						1	X	X	-005											
S	10/30/17	1505	X		CS-6						1	X	X	-006											
S	10/30/17	1515	X		CS-7						1	X	X	-007											
S	10/30/17	1525	X		CS-8						1	X	X	-008											
S	10/30/17	1535	X		CS-9						1	X	X	-009											
S	10/30/17	1545	X		CS-10						1	X	X	-010											
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush																SAME DAY									
Relinquished by (Signature)			Date: <u>10/30/17</u> Time: <u>1800</u>		Received by (Signature)			Date: <u>10/31/17</u> Time: <u>1806</u>		NOTES: Bill to Tom Long (EPRD) Non AFE N 32339															
Relinquished by (Signature)			Date: <u>10/31/17</u> Time: <u>2046</u>		Received by (Signature)			Date: <u>10/31/17</u> Time: <u>0815</u>																	
Relinquished by (Signature)			Date: Time:		Received by (Signature)			Date: Time:																	
Relinquished by (Signature)			Date: Time:		Received by (Signature)			Date: Time:																	
Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other																									

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>606 S. Rio Grande, Suite A, Aztec, NM 87410</u> Project Manager <u>K. Summers</u>		Laboratory: <u>Hall Environmental Labs</u> Address: <u>4901 Hawkins, NE Albuquerque, NM 87109</u> Contact: <u>Andy Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>725040112345</u>		ANALYSIS REQUESTED <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">BTEX 8021 TPH GRADE/MRD 8015</div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.4</u> <div style="display: flex; justify-content: space-between;"> 12345 </div> Page <u>2</u> of <u>2</u>							
		Sampler's Name: <u>Ranac Deerchilly</u> Sampler's Signature: <u>[Signature]</u>											
Proj. No. <u>725040112345</u> Project Name: <u>Lindrieth Vent Stack</u> No/Type of Containers: _____													
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	10/30/17	1400	X		CS-11						1		X X 1710F58-011
S	10/30/17	1405	X		CS-12						1		X X -012
S	10/30/17	1410	X		CS-13						1		X X -013
<div style="font-size: 2em; opacity: 0.5; transform: rotate(-30deg); pointer-events: none;">N/A</div>													
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>SAME DAY</u>													
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES: <u>Bill to Tom Long (EPRD)</u> <u>Non AFE N32339</u>					
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:						
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:						
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:						

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid A - Air Bag 250 ml - Glass wide mouth C - Charcoal tube P/O - Plastic or other SL - sludge O - Oil



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

November 02, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Lindrith Vent Stack

OrderNo.: 1711002

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/1/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1711002

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-14

Project: Lindrith Vent Stack

Collection Date: 10/31/2017 9:50:00 AM

Lab ID: 1711002-001

Matrix: SOIL

Received Date: 11/1/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/1/2017 12:49:51 PM	34734
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2017 12:49:51 PM	34734
Surr: DNOP	92.7	70-130		%Rec	1	11/1/2017 12:49:51 PM	34734
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/1/2017 9:07:30 AM	34720
Surr: BFB	84.1	15-316		%Rec	1	11/1/2017 9:07:30 AM	34720
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/1/2017 9:07:30 AM	34720
Toluene	ND	0.041		mg/Kg	1	11/1/2017 9:07:30 AM	34720
Ethylbenzene	ND	0.041		mg/Kg	1	11/1/2017 9:07:30 AM	34720
Xylenes, Total	ND	0.082		mg/Kg	1	11/1/2017 9:07:30 AM	34720
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	11/1/2017 9:07:30 AM	34720

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

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

Analytical Report

Lab Order 1711002

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-15

Project: Lindrith Vent Stack

Collection Date: 10/31/2017 10:00:00 AM

Lab ID: 1711002-002

Matrix: SOIL

Received Date: 11/1/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/1/2017 11:21:30 AM	34734
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2017 11:21:30 AM	34734
Surr: DNOP	93.1	70-130		%Rec	1	11/1/2017 11:21:30 AM	34734
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	11/1/2017 9:31:10 AM	34720
Surr: BFB	83.9	15-316		%Rec	1	11/1/2017 9:31:10 AM	34720
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/1/2017 9:31:10 AM	34720
Toluene	ND	0.045		mg/Kg	1	11/1/2017 9:31:10 AM	34720
Ethylbenzene	ND	0.045		mg/Kg	1	11/1/2017 9:31:10 AM	34720
Xylenes, Total	ND	0.091		mg/Kg	1	11/1/2017 9:31:10 AM	34720
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	11/1/2017 9:31:10 AM	34720

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

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

Analytical Report

Lab Order 1711002

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-16

Project: Lindrith Vent Stack

Collection Date: 10/31/2017 10:10:00 AM

Lab ID: 1711002-003

Matrix: SOIL

Received Date: 11/1/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/1/2017 11:43:32 AM	34734
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2017 11:43:32 AM	34734
Surr: DNOP	91.8	70-130		%Rec	1	11/1/2017 11:43:32 AM	34734
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/1/2017 9:54:48 AM	34720
Surr: BFB	85.5	15-316		%Rec	1	11/1/2017 9:54:48 AM	34720
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/1/2017 9:54:48 AM	34720
Toluene	ND	0.048		mg/Kg	1	11/1/2017 9:54:48 AM	34720
Ethylbenzene	ND	0.048		mg/Kg	1	11/1/2017 9:54:48 AM	34720
Xylenes, Total	ND	0.096		mg/Kg	1	11/1/2017 9:54:48 AM	34720
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	11/1/2017 9:54:48 AM	34720

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

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

Analytical Report

Lab Order 1711002

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-17

Project: Lindrith Vent Stack

Collection Date: 10/31/2017 10:20:00 AM

Lab ID: 1711002-004

Matrix: SOIL

Received Date: 11/1/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/1/2017 12:05:40 PM	34734
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2017 12:05:40 PM	34734
Surr: DNOP	92.8	70-130		%Rec	1	11/1/2017 12:05:40 PM	34734
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/1/2017 10:18:26 AM	34720
Surr: BFB	85.3	15-316		%Rec	1	11/1/2017 10:18:26 AM	34720
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/1/2017 10:18:26 AM	34720
Toluene	ND	0.047		mg/Kg	1	11/1/2017 10:18:26 AM	34720
Ethylbenzene	ND	0.047		mg/Kg	1	11/1/2017 10:18:26 AM	34720
Xylenes, Total	ND	0.093		mg/Kg	1	11/1/2017 10:18:26 AM	34720
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	11/1/2017 10:18:26 AM	34720

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	Page 4 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1711002

Date Reported: 11/2/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-18

Project: Lindrith Vent Stack

Collection Date: 10/31/2017 10:30:00 AM

Lab ID: 1711002-005

Matrix: SOIL

Received Date: 11/1/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2017 12:27:41 PM	34734
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2017 12:27:41 PM	34734
Surr: DNOP	92.1	70-130		%Rec	1	11/1/2017 12:27:41 PM	34734
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/1/2017 10:42:07 AM	34720
Surr: BFB	85.9	15-316		%Rec	1	11/1/2017 10:42:07 AM	34720
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/1/2017 10:42:07 AM	34720
Toluene	ND	0.050		mg/Kg	1	11/1/2017 10:42:07 AM	34720
Ethylbenzene	ND	0.050		mg/Kg	1	11/1/2017 10:42:07 AM	34720
Xylenes, Total	ND	0.099		mg/Kg	1	11/1/2017 10:42:07 AM	34720
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	11/1/2017 10:42:07 AM	34720

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	Page 5 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711002

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID: LCS-34734	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 34734	RunNo: 46793								
Prep Date: 11/1/2017	Analysis Date: 11/1/2017	SeqNo: 1492094		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	73.2	114			
Surr: DNOP	4.1		5.000		81.9	70	130			

Sample ID: MB-34734	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 34734	RunNo: 46793								
Prep Date: 11/1/2017	Analysis Date: 11/1/2017	SeqNo: 1492095		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711002

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	MB-34720	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	34720	RunNo:	46791					
Prep Date:	10/31/2017	Analysis Date:	11/1/2017	SeqNo:	1492520	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	850		1000		85.0	15	316			

Sample ID	LCS-34720	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	34720	RunNo:	46791					
Prep Date:	10/31/2017	Analysis Date:	11/1/2017	SeqNo:	1492521	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	75.9	131			
Surr: BFB	950		1000		95.1	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711002

02-Nov-17

Client: APEX TITAN
Project: Lindrith Vent Stack

Sample ID	MB-34720		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	34720		RunNo:	46791			
Prep Date:	10/31/2017		Analysis Date:	11/1/2017		SeqNo:	1492552		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	0.94		1.000		93.7	80	120			

Sample ID	LCS-34720		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	34720		RunNo:	46791			
Prep Date:	10/31/2017		Analysis Date:	11/1/2017		SeqNo:	1492553		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	77.3	128			
Toluene	0.91	0.050	1.000	0	90.6	79.2	125			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80.7	127			
Xylenes, Total	2.7	0.10	3.000	0	91.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	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 Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1711002

RcptNo: 1

Received By: Anne Thorne

11/1/2017 7:00:00 AM

Anne Thorne

Completed By: Anne Thorne

11/1/2017 7:16:12 AM

Anne Thorne

Reviewed By: *AL*

11/1/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


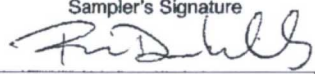
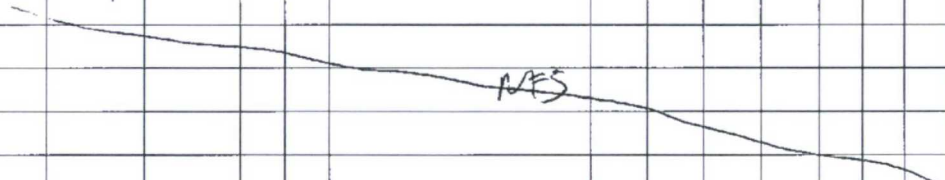
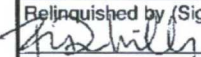
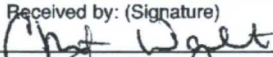
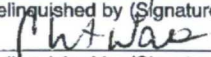
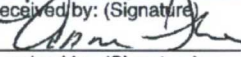
Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location 606 S. Rio Grande, Suite A Aztec, NM 87410 Project Manager K. Summers		Laboratory: Hall Environmental Analysis Laboratory Address: 4901 Hawkins NE Albuquerque, NM 87109 Contact: A. Freeman Phone: 505-345-3975 PO/SO #: See notes		ANALYSIS REQUESTED BTEX SO2 TPH GRO/DRO/MEO SOILS		Lab use only Due Date:								
		Temp. of coolers 1.6 when received (C°): 1 2 3 4 5 Page 1 of 1												
Sampler's Name Rancee Deechilly		Sampler's Signature 												
Proj. No. 72504012345		Project Name Lindrith Vent Stack		No/Type of Containers										
Matrix	Date	Time	Coed	G	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)	
S	10/31/17	950	X		CS-14								X X	1711002-001
S	10/31/17	1000	X		CS-15								X X	-002
S	10/31/17	1010	X		CS-16								X X	-003
S	10/31/17	1020	X		CS-17								X X	-004
S	10/31/17	1030	X		CS-18								X X	-005
														
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>SAME DAY</u>														
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES: Bill to Tom Long (EPROD) Non AFE N32339 <u>SAME DAY</u>						
		10/31/17	1528			10/31/17	1528							
		10/31/17	1911			11/01/17	0706							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil
 Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

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

State of New Mexico
Energy Minerals and Natural
Resources

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

NMOCD

Form C-141
Revised April 3, 2017

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

DISTRICT III

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name San Juan 30-6 #432s	Facility Type Natural Gas Gathering Pipeline	
Surface Owner BLM	Mineral Owner BLM	Serial No NM 111581

LOCATION OF RELEASE

Unit Letter I	Section 9	Township 30N	Range 6W	Feet from the 2388	North South Line	Feet from the 86	East West Line	County Rio Arriba
-------------------------	---------------------	------------------------	--------------------	---------------------------------	----------------------------	-------------------------------	--------------------------	-----------------------------

Latitude 36.826352 Longitude -107.441559 NAD83

NATURE OF RELEASE

Type of Release Natural gas and Natural Gas Liquids	Volume of Release 49.62 MCF Gas; 7-10 BBLs Condensate	Volume Recovered None
Source of Release Internal Corrosion of the Pipeline	Date and Hour of Occurrence 11/16/2017 @ 1:37 p.m.	Date and Hour of Discovery 11/16/2017 @ 1:37p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? : Courtesy Notification Cory Smith - NMOCD	
By Whom? Thomas Long	Date and Hour November 22, 2017 @ 3:33 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On November 16, 2017, a contractor reported a release on the San Juan 30-6 #432s pipeline. Enterprise technicians confirmed the release and isolated, depressurized, locked out and tagged out the pipeline.

Describe Area Affected and Cleanup Action Taken.* The contaminant mass was removed by mechanical excavation. The final excavation dimensions measured approximately 61 feet long by 10 feet by 14 feet deep. Approximately 135 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party corrective action report is included with this "Final" C-141.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 5/8/18	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: _____	Attached <input type="checkbox"/>
Date: 3/5/2018	Phone: (713) 381-6684	

* Attach Additional Sheets If Necessary

#NCS 180 165 5315



CORRECTIVE ACTION REPORT

Property:

**SJ 30-6 #432s Well Tie
SE 1/4, S10 T30N R6W
Rio Arriba County, New Mexico**


February 5, 2018
Apex Project No. 725040112352



Prepared for:

**Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:


Rane Deechilly
Project Scientist



Kyle Summers, CPG
Branch Manager / Senior Geologist

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LIST OF APPENDICES

Appendix A: Figures

Figure 1 – Topographic Map

Figure 2 – Site Vicinity Map

Figure 3 – Site Map with Soil Analytical Results

Appendix B: Executed C-138 Solid Waste Acceptance Form

Appendix C: Photographic Documentation

Appendix D: Table

Appendix E: Laboratory Data Sheets &
Chain of Custody Documentation

CORRECTIVE ACTION REPORT

SJ 30-6 #432s Well Tie
SE 1/4, S10 T30N R6W
Rio Arriba County, New Mexico

Apex Project No. 725040112352

1.0 INTRODUCTION

1.1 Site Description & Background

The SJ 30-6 #403 well tie release site, referred to hereinafter as the "Site", is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southeast (SE) ¼ of Section 10, Township 30 North, Range 6 West, in rural Rio Arriba County, New Mexico (36.826352N, 107.441559W). The Site is located on land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which transects the area from approximately east to west.

On November 16, 2017, a release of natural gas was discovered at the Site. Enterprise subsequently isolated and locked the line out of service. On November 22, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the corrective action was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the implementation of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table.

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	0
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			10

Based on Apex's evaluation of the scoring criteria, the Site would earn a maximum Total Ranking Score of "10". The ranking is based on the following information:

- No water wells were identified within a mile of the Site on the OSE Water Right Reporting System (WRRS) database. The release Site is located at an elevation of approximately 107 feet above the La Jara Canyon Wash. Based on the difference in elevation between the wash and Site, and the absence of visible seeps or springs, the depth to groundwater at the Site is anticipated to be greater than 100 feet below grade surface (bgs). This information supports a ranking score of "0" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities result in a wellhead/water source protection area ranking score of "0".
- The release point is approximately 670 feet north of a stock pond and the La Jara Canyon Wash, resulting in a distance to surface water ranking score of "10".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On November 22, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service. During the pipeline repair and corrective action activities, Halo Services Inc., provided heavy equipment and labor support, and Apex provided environmental consulting support.

On November 27, 2017, 11 composite soil samples (S-1 through S-11) were collected from the sidewalls and base of the excavation for laboratory analysis. In addition, three (3) composite soil samples (SP-1 through SP-3) were collected from stockpiled soils. Subsequent laboratory analytical results indicate that soils associated with composite soil sample S-5 and S-6 exhibit COC concentrations above New Mexico EMNRD OCD standards. On November 30, 2017, the base and west wall adjacent to the source were further excavated to remove affected soils. Two (2) composite soil samples were collected from the base and west wall on December 1, 2017 for laboratory analysis.

The excavation measured approximately 61 feet long by ten (10) feet wide. The maximum depth of the excavation measured approximately 14 feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of semi-consolidated silty sand and weathered shaly sandstone.

A total of approximately 135 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. The excavation was backfilled with laboratory-confirmed stockpiled soils and imported fill, and contoured to surrounding grade.

Figure 3 is a map with soil sample locations that depicts the approximate location of the excavation in relation to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.2 Soil Sampling Program

Apex field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dextil PetroFLAG[®] hydrocarbon analyzer system to guide excavation extents.

Apex's soil sampling program included the collection of 13 composite soil samples (S-1 through S-13) from the excavation and three (3) composite soil samples (SP-1 through SP-3) from the stockpiled soils for laboratory analysis.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied custody seal, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.3 Laboratory Analytical Methods

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory results are summarized in **Table 1**, included in **Appendix D**. The executed chain-of-custody form and laboratory data sheets are provided in **Appendix E**.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the New Mexico EMNRD OCD rules, specifically New Mexico Administrative Code 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the BTEX and TPH concentrations or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1 through S-4 and S-7 through S-13) and composite stockpiled soil samples (SP-1 and SP-3) to the New Mexico EMNRD OCD RALs for sites having a total ranking score of "10". Soils associated with composite soil samples S-5 and S-6, and composite stockpiled soil sample SP-2 were removed and transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/treatment, and are not included in the following discussion.

- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil samples collected from the reused stockpiled soils do not indicate benzene concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD RAL of 10 milligrams per kilogram (mg/kg).
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil samples collected from the reused stockpiled soils do not indicate total BTEX concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD RAL of 50 mg/kg.
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil samples collected from the reused stockpiled soils indicate combined TPH GRO/DRO/MRO concentrations ranging from below the laboratory PQLs to 57 mg/kg (S-7), which are below the New Mexico EMNRD OCD RAL of 1,000 mg/kg for a Site ranking of "10".
- The laboratory analyses of composite soil samples collected from soils remaining in place and the composite soil samples collected from the reused stockpiled soils indicate chloride concentrations ranging from below the laboratory PQLs to 62 mg/kg (S-3).

Composite soil sample results are provided in **Table 1** in **Appendix D**.

5.0 FINDINGS AND RECOMMENDATIONS

The SJ 30-6 #432s well tie release site is located within the Enterprise ROW in the SE ¼ of Section 10, Township 30 North, Range 6 West, in rural Rio Arriba County, New Mexico. The Site is located on land managed by the United States BLM. The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which transects the area from approximately east to west.

On November 16, 2017, a release of natural gas was discovered at the Site. Enterprise subsequently isolated and locked the line out of service. On November 22, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service.

- The primary objective of the corrective action was to reduce COC concentrations in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of semi-consolidated silty sand and weathered shaly sandstone.

- The excavation measured approximately 61 feet long by ten (10) feet wide. The maximum depth of the excavation measured approximately 14 feet bgs.
- Prior to backfilling, 13 composite soil samples (S-1 through S-13) from the excavation and three (3) composite soil samples (SP-1 through SP-3) from the stockpiled soils were collected for laboratory analysis. Based on soil analytical results, soils remaining in place and reused stockpiled soils do not exhibit COC concentrations above the New Mexico EMNRD OCD RALs for a Site ranking of "10".
- A total of approximately 135 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with laboratory-confirmed stockpiled soils and imported fill and contoured to surrounding grade.

Based on field observations and laboratory analytical results, no additional corrective action with respect to the soil impact appears warranted at this time.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

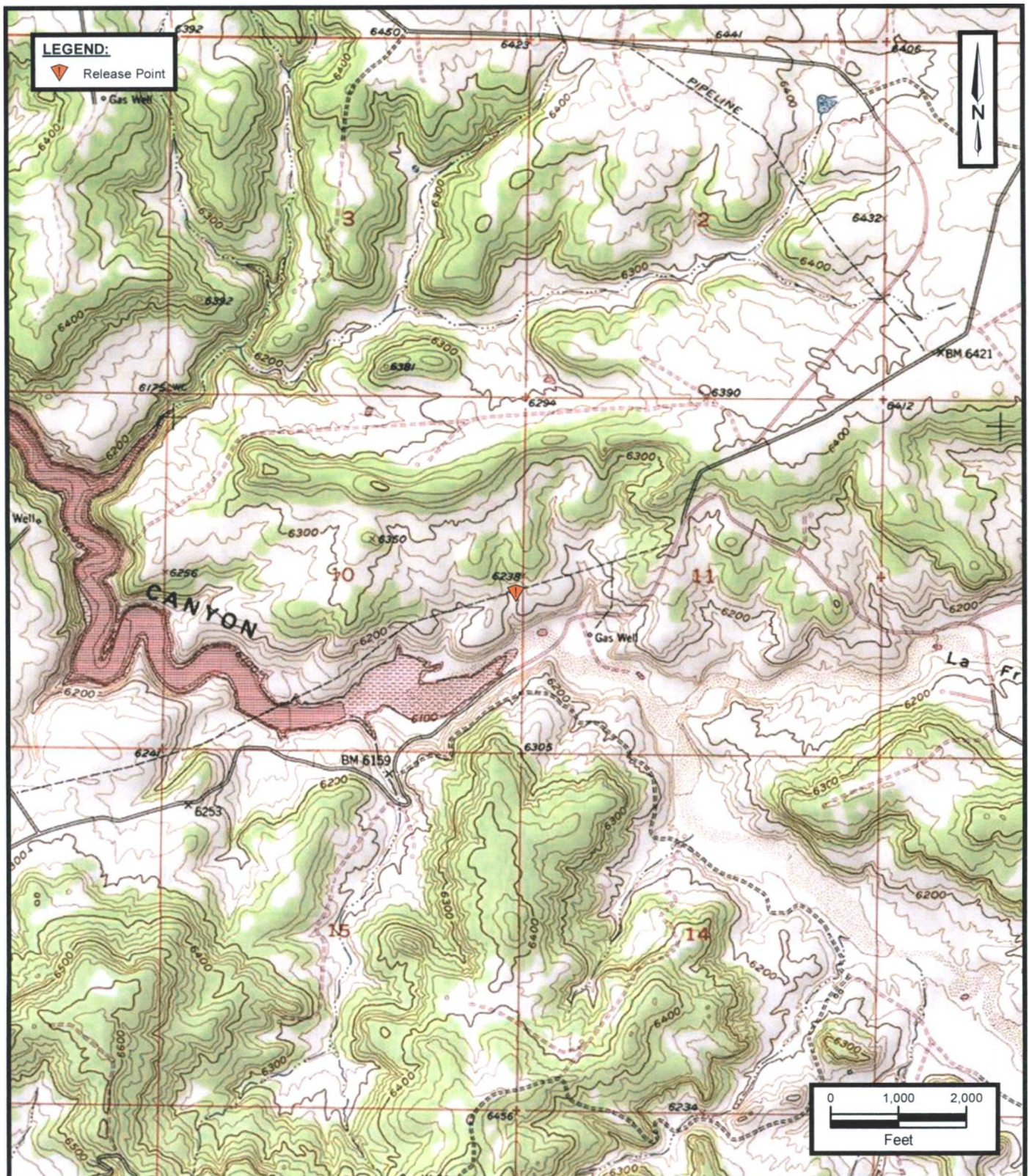
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

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APPENDIX A

Figures



SJ 30-6 #432s Well Tie
 SE 1/4, S10 T30N R6W
 Rio Arriba County, New Mexico
 36.826352 N, 107.441559 W



Apex TITAN, Inc.

606 South Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apexcos.com

A Subsidiary of Apex Companies, LLC

FIGURE 1

Topographic Map




Service Layer Credits:

Copyright © 2013 National Geographic Society, i-cubed, Gomez
 Ranch New Mexico 7.5-Minute Quadrangle 1981

Project No. 725040112352



LEGEND:

-  Release Point
-  Blanco A-L Pipeline Location
-  SJ 30-6 #432s Well Tie Pipeline Location

SJ 30-6 #432s Well Tie
 SE 1/4, S10 T30N R6W
 Rio Arriba County, New Mexico
 36.826352 N, 107.441559 W

Project No. 725040112352



Apex TITAN, Inc.
 606 South Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 2

Site Vicinity Map

Service Layer Credits:
 Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Aerial Photograph June 2016

LEGEND:

- Release Point
- Excavation Composite Soil Sample Location
- Excavation Composite Soil Sample
- Removed and Transported to Landfarm for Disposal/Treatment
- Blanco A-L Pipeline Location
- SJ 30-6 #432s Well Tie Pipeline Location
- Previous Wall Extent
- Culvert
- Extent of Final Excavation

NOTE:

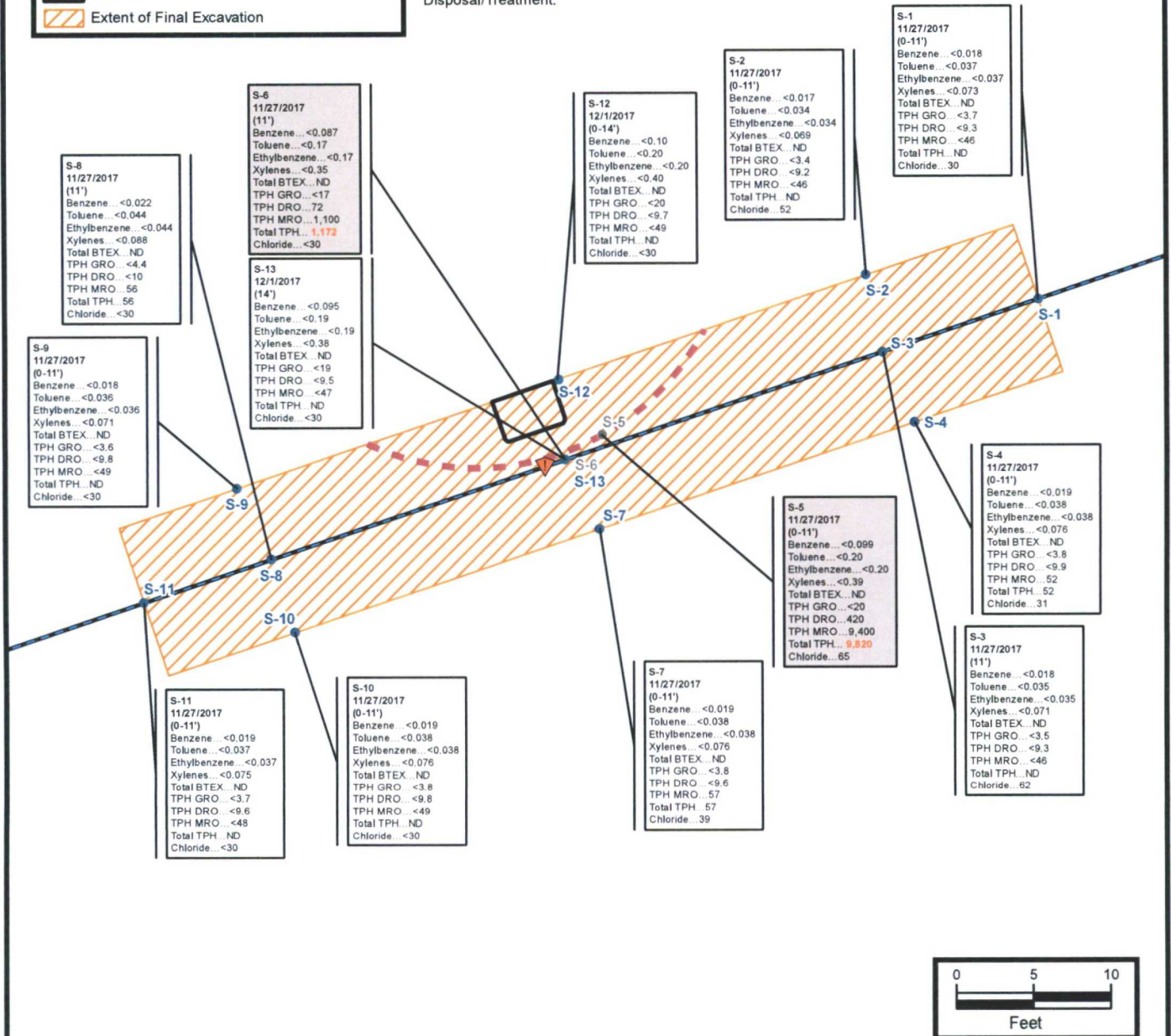
All Concentrations Are Listed in mg/Kg.

All Depths are Listed in Feet BGS.

ND - Not Detected

Concentrations in **Red** Exceed the Applicable NM EMNRD OCD Remediation Action Level.

COC Callouts in Gray Denote Excavation Soil Samples Removed and Transported to Landfarm for Disposal/Treatment.



SJ 30-6 #432s Well Tie
SE 1/4, S10 T30N R6W
Rio Arriba County, New Mexico
36.826352 N, 107.441559 W



Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3

Site Map with Soil Analytical Results

Project No. 725040112352

APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

State of New Mexico
Energy Minerals and Natural Resources

97057-0871

Form C-138
Revised August 1, 2011

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

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. Originating Site:

SJ 30-6 #432s Pipeline

3. Location of Material (Street Address, City, State or ULSTR):

UL G Section 9 T30N R 6W; 36.829257 -107.467112

Nov. 2017

4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas pipeline.

Estimated Volume 50 ^{yd³} bbls Known Volume (to be entered by the operator at the end of the haul) 135 ^{yd³} bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long ^{Thomas Long} representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long 11-29-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to complete the required
Generator Signature testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: TBD IMI, ACE, Rich Trucking, Sweazca, Esparza

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Environmental Manager DATE: 11/29/17

SIGNATURE: Greg Crabtree
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

Photograph 1

View of the initial excavation, facing northeast.



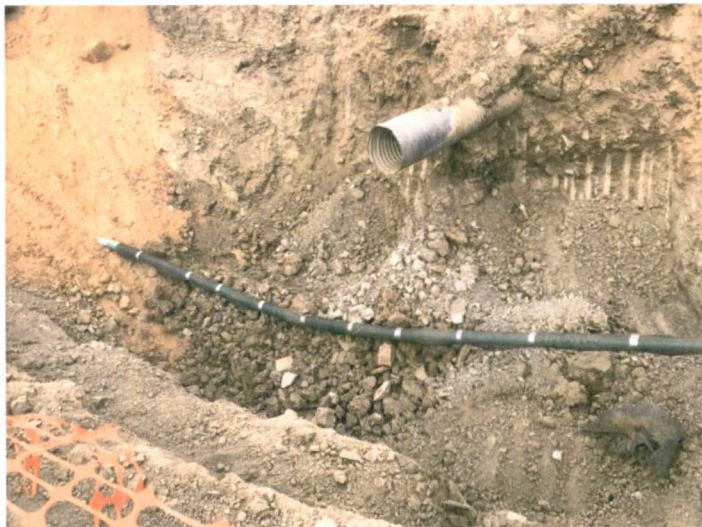
Photograph 2

View of the initial excavation, facing southwest.



Photograph 3

View of in-process excavation activities, facing northwest.



Photograph 4

View of the final excavation, facing southeast.



APPENDIX D

Table

TABLE 1
SJ 30-6 #432s Well Tie
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level				10	NE	NE	NE	50				1,000	NE
Stockpiled Soils Removed and Transported to Landfarm for Disposal/Treatment													
SP-2	11.27.17	C	Stockpile	<0.095	<0.19	<0.19	<0.38	ND	<19	26	62	88	<30
Excavation Composite Soil Samples Removed and Transported to Landfarm for Disposal/Treatment													
S-5	11.27.17	C	0 to 11	<0.099	<0.20	<0.20	<0.39	ND	<20	420	9,400	9,820	65
S-6	11.27.17	C	11	<0.087	<0.17	<0.17	<0.35	ND	<17	72	1,100	1,172	<30
Soil Samples Collected from Stockpiled Soils													
SP-1	11.27.17	C	Stockpile	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.6	<48	ND	<30
SP-3	11.27.17	C	Stockpile	<0.020	<0.040	<0.040	<0.079	ND	<4.0	<9.3	<47	ND	34
Excavation Composite Soil Samples													
S-1	11.27.17	C	0 to 11	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.3	<46	ND	30
S-2	11.27.17	C	0 to 11	<0.017	<0.034	<0.034	<0.069	ND	<3.4	<9.2	<46	ND	52
S-3	11.27.17	C	11	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.3	<46	ND	62
S-4	11.27.17	C	0 to 11	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.9	52	52	31
S-7	11.27.17	C	0 to 11	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.6	57	57	39
S-8	11.27.17	C	11	<0.022	<0.044	<0.044	<0.088	ND	<4.4	<10	56	56	<30
S-9	11.27.17	C	0 to 11	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.8	<49	ND	<30
S-10	11.27.17	C	0 to 11	<0.019	<0.038	<0.038	<0.076	ND	<3.8	<9.8	<49	ND	<30
S-11	11.27.17	C	0 to 11	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.6	<48	ND	<30
S-12	12.01.17	C	0 to 14	<0.10	<0.20	<0.20	<0.40	ND	<20	<9.7	<49	ND	<30
S-13	12.01.17	C	14	<0.095	<0.19	<0.19	<0.38	ND	<19	<9.5	<47	ND	<30

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD OCD Remediation Action Level

ND = Not Detected above the Practical Quantitation Limits

NE = Not established

mg/kg = milligram per kilogram

Appendix E

Laboratory Data Sheets
& Chain of Custody Documentation



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

November 29, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: SJ 30-6 432S

OrderNo.: 1711C52

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 11/28/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-1

Project: SJ 30-6 432S

Collection Date: 11/27/2017 9:00:00 AM

Lab ID: 1711C52-001

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	30	30		mg/Kg	20	11/28/2017 11:29:59 AM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/28/2017 9:57:55 AM	35179
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/28/2017 9:57:55 AM	35179
Surr: DNOP	93.9	70-130		%Rec	1	11/28/2017 9:57:55 AM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/28/2017 6:00:38 PM	G47369
Surr: BFB	107	15-316		%Rec	1	11/28/2017 6:00:38 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/28/2017 6:00:38 PM	B47369
Toluene	ND	0.037		mg/Kg	1	11/28/2017 6:00:38 PM	B47369
Ethylbenzene	ND	0.037		mg/Kg	1	11/28/2017 6:00:38 PM	B47369
Xylenes, Total	ND	0.073		mg/Kg	1	11/28/2017 6:00:38 PM	B47369
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/28/2017 6:00:38 PM	B47369

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

CLIENT: APEX TITAN

Client Sample ID: S-2

Project: SJ 30-6 432S

Collection Date: 11/27/2017 9:10:00 AM

Lab ID: 1711C52-002

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	52	30		mg/Kg	20	11/28/2017 11:42:23 AM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/28/2017 10:19:54 AM	35179
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/28/2017 10:19:54 AM	35179
Surr: DNOP	90.6	70-130		%Rec	1	11/28/2017 10:19:54 AM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/28/2017 6:24:28 PM	G47369
Surr: BFB	108	15-316		%Rec	1	11/28/2017 6:24:28 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/28/2017 6:24:28 PM	B47369
Toluene	ND	0.034		mg/Kg	1	11/28/2017 6:24:28 PM	B47369
Ethylbenzene	ND	0.034		mg/Kg	1	11/28/2017 6:24:28 PM	B47369
Xylenes, Total	ND	0.069		mg/Kg	1	11/28/2017 6:24:28 PM	B47369
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/28/2017 6:24:28 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-3**Project:** SJ 30-6 432S**Collection Date:** 11/27/2017 9:20:00 AM**Lab ID:** 1711C52-003**Matrix:** SOIL**Received Date:** 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	62	30		mg/Kg	20	11/28/2017 11:54:48 AM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/28/2017 10:41:54 AM	35179
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/28/2017 10:41:54 AM	35179
Surr: DNOP	89.1	70-130		%Rec	1	11/28/2017 10:41:54 AM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/28/2017 6:48:19 PM	G47369
Surr: BFB	107	15-316		%Rec	1	11/28/2017 6:48:19 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/28/2017 6:48:19 PM	B47369
Toluene	ND	0.035		mg/Kg	1	11/28/2017 6:48:19 PM	B47369
Ethylbenzene	ND	0.035		mg/Kg	1	11/28/2017 6:48:19 PM	B47369
Xylenes, Total	ND	0.071		mg/Kg	1	11/28/2017 6:48:19 PM	B47369
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	11/28/2017 6:48:19 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4

Project: SJ 30-6 432S

Collection Date: 11/27/2017 9:30:00 AM

Lab ID: 1711C52-004

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	31	30		mg/Kg	20	11/28/2017 12:07:12 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/28/2017 3:48:29 PM	35179
Motor Oil Range Organics (MRO)	52	49		mg/Kg	1	11/28/2017 3:48:29 PM	35179
Surr: DNOP	102	70-130		%Rec	1	11/28/2017 3:48:29 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/28/2017 10:52:50 AM	G47369
Surr: BFB	105	15-316		%Rec	1	11/28/2017 10:52:50 AM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/28/2017 10:52:50 AM	B47369
Toluene	ND	0.038		mg/Kg	1	11/28/2017 10:52:50 AM	B47369
Ethylbenzene	ND	0.038		mg/Kg	1	11/28/2017 10:52:50 AM	B47369
Xylenes, Total	ND	0.076		mg/Kg	1	11/28/2017 10:52:50 AM	B47369
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/28/2017 10:52:50 AM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-5

Project: SJ 30-6 432S

Collection Date: 11/27/2017 9:40:00 AM

Lab ID: 1711C52-005

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	65	30		mg/Kg	20	11/28/2017 12:19:37 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	420	95		mg/Kg	10	11/28/2017 2:35:19 PM	35179
Motor Oil Range Organics (MRO)	9400	480		mg/Kg	10	11/28/2017 2:35:19 PM	35179
Surr: DNOP	0	70-130	S	%Rec	10	11/28/2017 2:35:19 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	11/28/2017 11:16:44 AM	G47369
Surr: BFB	108	15-316		%Rec	5	11/28/2017 11:16:44 AM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.099		mg/Kg	5	11/28/2017 11:16:44 AM	B47369
Toluene	ND	0.20		mg/Kg	5	11/28/2017 11:16:44 AM	B47369
Ethylbenzene	ND	0.20		mg/Kg	5	11/28/2017 11:16:44 AM	B47369
Xylenes, Total	ND	0.39		mg/Kg	5	11/28/2017 11:16:44 AM	B47369
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	5	11/28/2017 11:16:44 AM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-6

Project: SJ 30-6 432S

Collection Date: 11/27/2017 9:50:00 AM

Lab ID: 1711C52-006

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:32:01 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	72	20		mg/Kg	2	11/28/2017 2:24:03 PM	35179
Motor Oil Range Organics (MRO)	1100	99		mg/Kg	2	11/28/2017 2:24:03 PM	35179
Surr: DNOP	103	70-130		%Rec	2	11/28/2017 2:24:03 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	11/28/2017 11:40:34 AM	G47369
Surr: BFB	107	15-316		%Rec	5	11/28/2017 11:40:34 AM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.087		mg/Kg	5	11/28/2017 11:40:34 AM	B47369
Toluene	ND	0.17		mg/Kg	5	11/28/2017 11:40:34 AM	B47369
Ethylbenzene	ND	0.17		mg/Kg	5	11/28/2017 11:40:34 AM	B47369
Xylenes, Total	ND	0.35		mg/Kg	5	11/28/2017 11:40:34 AM	B47369
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	5	11/28/2017 11:40:34 AM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-7

Project: SJ 30-6 432S

Collection Date: 11/27/2017 10:00:00 AM

Lab ID: 1711C52-007

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	39	30		mg/Kg	20	11/28/2017 12:44:26 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/28/2017 12:33:57 PM	35179
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	11/28/2017 12:33:57 PM	35179
Surr: DNOP	98.0	70-130		%Rec	1	11/28/2017 12:33:57 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/28/2017 12:04:18 PM	G47369
Surr: BFB	104	15-316		%Rec	1	11/28/2017 12:04:18 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/28/2017 12:04:18 PM	B47369
Toluene	ND	0.038		mg/Kg	1	11/28/2017 12:04:18 PM	B47369
Ethylbenzene	ND	0.038		mg/Kg	1	11/28/2017 12:04:18 PM	B47369
Xylenes, Total	ND	0.076		mg/Kg	1	11/28/2017 12:04:18 PM	B47369
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/28/2017 12:04:18 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-8

Project: SJ 30-6 432S

Collection Date: 11/27/2017 10:10:00 AM

Lab ID: 1711C52-008

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:56:51 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/28/2017 12:55:57 PM	35179
Motor Oil Range Organics (MRO)	56	51		mg/Kg	1	11/28/2017 12:55:57 PM	35179
Surr: DNOP	96.9	70-130		%Rec	1	11/28/2017 12:55:57 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	11/28/2017 12:28:01 PM	G47369
Surr: BFB	104	15-316		%Rec	1	11/28/2017 12:28:01 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	11/28/2017 12:28:01 PM	B47369
Toluene	ND	0.044		mg/Kg	1	11/28/2017 12:28:01 PM	B47369
Ethylbenzene	ND	0.044		mg/Kg	1	11/28/2017 12:28:01 PM	B47369
Xylenes, Total	ND	0.088		mg/Kg	1	11/28/2017 12:28:01 PM	B47369
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	11/28/2017 12:28:01 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-9**Project:** SJ 30-6 432S**Collection Date:** 11/27/2017 10:20:00 AM**Lab ID:** 1711C52-009**Matrix:** SOIL**Received Date:** 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 1:34:05 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/28/2017 1:18:09 PM	35179
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2017 1:18:09 PM	35179
Surr: DNOP	94.3	70-130		%Rec	1	11/28/2017 1:18:09 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	11/28/2017 12:51:50 PM	G47369
Surr: BFB	104	15-316		%Rec	1	11/28/2017 12:51:50 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/28/2017 12:51:50 PM	B47369
Toluene	ND	0.036		mg/Kg	1	11/28/2017 12:51:50 PM	B47369
Ethylbenzene	ND	0.036		mg/Kg	1	11/28/2017 12:51:50 PM	B47369
Xylenes, Total	ND	0.071		mg/Kg	1	11/28/2017 12:51:50 PM	B47369
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	11/28/2017 12:51:50 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-10

Project: SJ 30-6 432S

Collection Date: 11/27/2017 10:30:00 AM

Lab ID: 1711C52-010

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 1:46:30 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/28/2017 1:40:14 PM	35179
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/28/2017 1:40:14 PM	35179
Surr: DNOP	96.3	70-130		%Rec	1	11/28/2017 1:40:14 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/28/2017 1:15:37 PM	G47369
Surr: BFB	104	15-316		%Rec	1	11/28/2017 1:15:37 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/28/2017 1:15:37 PM	B47369
Toluene	ND	0.038		mg/Kg	1	11/28/2017 1:15:37 PM	B47369
Ethylbenzene	ND	0.038		mg/Kg	1	11/28/2017 1:15:37 PM	B47369
Xylenes, Total	ND	0.076		mg/Kg	1	11/28/2017 1:15:37 PM	B47369
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	11/28/2017 1:15:37 PM	B47369

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

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

Analytical Report

Lab Order 1711C52

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-11

Project: SJ 30-6 432S

Collection Date: 11/27/2017 10:40:00 AM

Lab ID: 1711C52-011

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 1:58:55 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/28/2017 2:02:11 PM	35179
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 2:02:11 PM	35179
Surr: DNOP	99.0	70-130		%Rec	1	11/28/2017 2:02:11 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/28/2017 1:39:19 PM	G47369
Surr: BFB	106	15-316		%Rec	1	11/28/2017 1:39:19 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/28/2017 1:39:19 PM	B47369
Toluene	ND	0.037		mg/Kg	1	11/28/2017 1:39:19 PM	B47369
Ethylbenzene	ND	0.037		mg/Kg	1	11/28/2017 1:39:19 PM	B47369
Xylenes, Total	ND	0.075		mg/Kg	1	11/28/2017 1:39:19 PM	B47369
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	11/28/2017 1:39:19 PM	B47369

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C52

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	MB-35185	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35185	RunNo:	47366					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512112	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35185	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35185	RunNo:	47366					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512113	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C52

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	LCS-35179		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35179		RunNo: 47353					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510946		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	73.2	114			
Surr: DNOP	4.4		5.000		88.0	70	130			

Sample ID	MB-35179		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510947		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		91.5	70	130				

Sample ID	LCS-35180		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510950		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.6	70	130			

Sample ID	MB-35180		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510951		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.5	70	130			

Sample ID	1711C52-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-1		Batch ID: 35179		RunNo: 47353					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1511922		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	49.12	2.286	89.9	55.8	125			
Surr: DNOP	4.4		4.912		90.0	70	130			

Sample ID	1711C52-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-1		Batch ID: 35179		RunNo: 47353					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1511923		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.5	47.62	2.286	90.4	55.8	125	2.36	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C52

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	1711C52-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-1	Batch ID:	35179	RunNo:	47353					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1511923	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		4.762		90.3	70	130	0	0	

Sample ID	LCS-35150	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	35150	RunNo:	47354					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1512100	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID	MB-35150	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	35150	RunNo:	47354					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1512101	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C52

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511549	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	1100		1000		110	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511550	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	89.2	75.9	131			
Surr: BFB	1200		1000		116	15	316			

Sample ID	1711C52-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-1	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511552	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.7	18.30	0	103	77.8	128			
Surr: BFB	880		732.1		120	15	316			

Sample ID	1711C52-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-1	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511553	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.7	18.30	0	103	77.8	128	0.660	20	
Surr: BFB	880		732.1		120	15	316	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C52

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511568	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		103	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511569	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	77.3	128			
Toluene	0.96	0.050	1.000	0	96.5	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	95.0	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	1711C52-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-2	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511572	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.017	0.6897	0	100	80.9	132			
Toluene	0.69	0.034	0.6897	0	100	79.8	136			
Ethylbenzene	0.66	0.034	0.6897	0	95.0	79.4	140			
Xylenes, Total	1.9	0.069	2.069	0	93.4	78.5	142			
Surr: 4-Bromofluorobenzene	0.73		0.6897		105	80	120			

Sample ID	1711C52-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-2	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511573	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.017	0.6897	0	99.4	80.9	132	0.658	20	
Toluene	0.69	0.034	0.6897	0	99.8	79.8	136	0.413	20	
Ethylbenzene	0.67	0.034	0.6897	0	97.0	79.4	140	2.11	20	
Xylenes, Total	2.0	0.069	2.069	0	94.6	78.5	142	1.31	20	
Surr: 4-Bromofluorobenzene	0.73		0.6897		106	80	120	0	0	

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1711C52

RcptNo: 1

Received By: Anne Thome

11/28/2017 7:00:00 AM

Anne Thome

Completed By: Anne Thome

11/28/2017 7:23:19 AM

Anne Thome

Reviewed By: JMO

11/28/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location 606 S. Rio Grande, Suite A Aztec, NM 87410 Project Manager K. Summers		Laboratory: <u>Hall Environmental Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>see notes</u>		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); display: inline-block;"> BTEX 8021 TPH 8021 Onsite </div>										Lab use only Due Date: _____ Temp. of coolers <u>1.0</u> when received (C°): 1 2 3 4 5 Page <u>1</u> of <u>2</u>			
		Sampler's Name: <u>Ranee Dechilly</u> Sampler's Signature: <u>[Signature]</u>															
Proj. No. <u>725640112352</u>		Project Name <u>SS 30-6 #432s</u>				No/Type of Containers										Lab Sample ID (Lab Use Only)	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O					
S	11/27/17	900	X		S-1						1		X X X	1711C52-001			
S	11/27/17	910	X		S-2						1		X X X	-002			
S	11/27/17	920	X		S-3						1		X X X	-003			
S	11/27/17	930	X		S-4						1		X X X	-004			
S	11/27/17	940	X		S-5						1		X X X	-005			
S	11/27/17	950	X		S-6						1		X X X	-006			
S	11/27/17	1000	X		S-7						1		X X X	-007			
S	11/27/17	1010	X		S-8						1		X X X	-008			
S	11/27/17	1020	X		S-9						1		X X X	-009			
S	11/27/17	1030	X		S-10						1		X X X	-010			
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>SAME DAY</u>																	
Relinquished by (Signature)		Date: <u>11/27/17</u> Time: <u>1727</u>		Received by (Signature)		Date: <u>11/27/17</u> Time: <u>1727</u>		NOTES: Bill to Tam Long (EPRG) SAME DAY Coc Seal on Jars									
Relinquished by (Signature)		Date: <u>11/27/17</u> Time: <u>1910</u>		Received by (Signature)		Date: <u>11/28/17</u> Time: <u>0700</u>											
Relinquished by (Signature)		Date: _____ Time: _____		Received by (Signature)		Date: _____ Time: _____											
Relinquished by (Signature)		Date: _____ Time: _____		Received by (Signature)		Date: _____ Time: _____											
Matrix Container: WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid A - Air Bag 250 ml - Glass wide mouth C - Charcoal tube SL - sludge O - Oil P/O - Plastic or other																	



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

November 29, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: SJ 30-6 432S

OrderNo.: 1711C54

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/28/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711C54

Date Reported: 11/29/2017

CLIENT: APEX TITAN

Client Sample ID: SP-1

Project: SJ 30-6 432S

Collection Date: 11/27/2017 11:00:00 AM

Lab ID: 1711C54-001

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:44:43 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/28/2017 11:56:48 AM	35179
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 11:56:48 AM	35179
Surr: DNOP	78.7	70-130		%Rec	1	11/28/2017 11:56:48 AM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/28/2017 12:54:22 PM	G47368
Surr: BFB	88.4	15-316		%Rec	1	11/28/2017 12:54:22 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/28/2017 12:54:22 PM	B47368
Toluene	ND	0.039		mg/Kg	1	11/28/2017 12:54:22 PM	B47368
Ethylbenzene	ND	0.039		mg/Kg	1	11/28/2017 12:54:22 PM	B47368
Xylenes, Total	ND	0.078		mg/Kg	1	11/28/2017 12:54:22 PM	B47368
Surr: 4-Bromofluorobenzene	85.2	80-120		%Rec	1	11/28/2017 12:54:22 PM	B47368

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

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

Analytical Report

Lab Order 1711C54

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** SP-2**Project:** SJ 30-6 432S**Collection Date:** 11/27/2017 11:10:00 AM**Lab ID:** 1711C54-002**Matrix:** SOIL**Received Date:** 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:57:07 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	26	9.4		mg/Kg	1	11/28/2017 12:24:30 PM	35179
Motor Oil Range Organics (MRO)	62	47		mg/Kg	1	11/28/2017 12:24:30 PM	35179
Surr: DNOP	85.0	70-130		%Rec	1	11/28/2017 12:24:30 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	11/28/2017 1:17:44 PM	G47368
Surr: BFB	87.1	15-316		%Rec	5	11/28/2017 1:17:44 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.095		mg/Kg	5	11/28/2017 1:17:44 PM	B47368
Toluene	ND	0.19		mg/Kg	5	11/28/2017 1:17:44 PM	B47368
Ethylbenzene	ND	0.19		mg/Kg	5	11/28/2017 1:17:44 PM	B47368
Xylenes, Total	ND	0.38		mg/Kg	5	11/28/2017 1:17:44 PM	B47368
Surr: 4-Bromofluorobenzene	85.4	80-120		%Rec	5	11/28/2017 1:17:44 PM	B47368

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	Page 2 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1711C54

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-3

Project: SJ 30-6 432S

Collection Date: 11/27/2017 11:20:00 AM

Lab ID: 1711C54-003

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	34	30		mg/Kg	20	11/28/2017 1:34:22 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/28/2017 12:52:41 PM	35179
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/28/2017 12:52:41 PM	35179
Surr: DNOP	82.1	70-130		%Rec	1	11/28/2017 12:52:41 PM	35179
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/28/2017 1:41:11 PM	G47368
Surr: BFB	90.6	15-316		%Rec	1	11/28/2017 1:41:11 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/28/2017 1:41:11 PM	B47368
Toluene	ND	0.040		mg/Kg	1	11/28/2017 1:41:11 PM	B47368
Ethylbenzene	ND	0.040		mg/Kg	1	11/28/2017 1:41:11 PM	B47368
Xylenes, Total	ND	0.079		mg/Kg	1	11/28/2017 1:41:11 PM	B47368
Surr: 4-Bromofluorobenzene	87.3	80-120		%Rec	1	11/28/2017 1:41:11 PM	B47368

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C54

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	MB-35186	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512196	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35186	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512197	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C54

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	LCS-35179		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35179		RunNo: 47353					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510946		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	73.2	114			
Surr: DNOP	4.4		5.000		88.0	70	130			

Sample ID	MB-35179		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35179		RunNo:	47353				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510947		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		91.5	70	130				

Sample ID	LCS-35180		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510950		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.6	70	130			

Sample ID	MB-35180		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510951		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.5	70	130			

Sample ID	LCS-35150		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35150		RunNo: 47354					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1512100		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID	MB-35150		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 35150		RunNo: 47354					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1512101		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C54

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511580	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	890		1000		89.4	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511581	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	88.7	75.9	131			
Surr: BFB	1000		1000		100	15	316			

Sample ID	MB-35154	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511588	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	880		1000		88.1	15	316			
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Sample ID	LCS-35154	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511589	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	1000		1000		102	15	316			
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Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C54

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 432S

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511605	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	0.90		1.000		90.0	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511606	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	93.2	77.3	128			
Toluene	0.93	0.050	1.000	0	92.6	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			

Sample ID	MB-35154	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511613	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	80	120			

Sample ID	LCS-35154	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511614	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	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 Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1711C54

RcptNo: 1

Received By: Anne Thorne 11/28/2017 7:00:00 AM

Completed By: Anne Thorne 11/28/2017 8:25:43 AM

Reviewed By: *zmo*

11/28/17

Anne Thorne

Anne Thorne

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


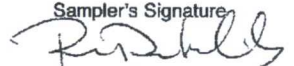
Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>606 S. Rio Grande, Suite A</u> <u>Aztec, NM 87410</u> Project Manager <u>R. Summers</u>		Laboratory: <u>Hall Environmental Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: left top; position: absolute; left: 50px; top: 50px;"> BTEX 5031 TPH 600/1000/10000 Chlorides </div>										Lab use only Due Date: Temp. of coolers when received (C°): <div style="display: flex; justify-content: space-around;"> 12345 </div> Page <u>1</u> of <u>1</u>									
		Sampler's Name <u>Ranee Doechilly</u> Sampler's Signature 		Proj. No. <u>72504012352</u> Project Name <u>ST 30-6 #4325</u> No/Type of Containers																			
Matrix	Date	Time	COC	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)										
S	11/27/17	1100	X		SP-1						1		X X X	1711CS4001									
S	11/27/17	1110	X		SP-2						1		X X X	202									
S	11/27/17	1120	X		SP-3						1		X X X	203									
<div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; opacity: 0.5;">MFS</div> </div>																							
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>SAME DAY</u>																							
Relinquished by (Signature)			Date: <u>11/27/17</u> Time: <u>1730</u>		Received by (Signature)			Date: <u>11/27/17</u> Time: <u>1725</u>		NOTES: <u>Bill to Tom Long (EPR00)</u> <u>SAME DAY</u> <u>COC Seal</u>													
Relinquished by (Signature)			Date: <u>11/27/17</u> Time: <u>1910</u>		Received by (Signature)			Date: <u>11/28/17</u> Time: <u>0700</u>															
Relinquished by (Signature)			Date: Time:		Received by (Signature)			Date: Time:															
Relinquished by (Signature)			Date: Time:		Received by (Signature)			Date: Time:															
Matrix Container		WW - Wastewater VOA - 40 ml vial		W - Water A/G - Amber / Or Glass 1 Liter		S - Soil SD - Solid		L - Liquid 250 ml - Glass wide mouth		A - Air Bag		C - Charcoal tube P/O - Plastic or other		SL - sludge		O - Oil							



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

December 05, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: SJ 30-6 432s

OrderNo.: 1712079

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 12/2/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1712079

Date Reported: 12/5/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-12

Project: SJ 30-6 432s

Collection Date: 12/1/2017 12:10:00 PM

Lab ID: 1712079-001

Matrix: MEOH (SOIL)

Received Date: 12/2/2017 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	12/4/2017 10:48:22 AM	35291
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/4/2017 11:14:27 AM	35289
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/4/2017 11:14:27 AM	35289
Surr: DNOP	81.5	70-130		%Rec	1	12/4/2017 11:14:27 AM	35289
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	12/4/2017 9:48:31 AM	G47501
Surr: BFB	88.5	15-316		%Rec	5	12/4/2017 9:48:31 AM	G47501
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	12/4/2017 9:48:31 AM	B47501
Toluene	ND	0.20		mg/Kg	5	12/4/2017 9:48:31 AM	B47501
Ethylbenzene	ND	0.20		mg/Kg	5	12/4/2017 9:48:31 AM	B47501
Xylenes, Total	ND	0.40		mg/Kg	5	12/4/2017 9:48:31 AM	B47501
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	5	12/4/2017 9:48:31 AM	B47501

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

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

Analytical Report

Lab Order 1712079

Date Reported: 12/5/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-13

Project: SJ 30-6 432s

Collection Date: 12/1/2017 12:20:00 PM

Lab ID: 1712079-002

Matrix: MEOH (SOIL)

Received Date: 12/2/2017 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	12/4/2017 11:00:46 AM	35291
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/4/2017 11:36:24 AM	35289
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/4/2017 11:36:24 AM	35289
Surr: DNOP	84.4	70-130		%Rec	1	12/4/2017 11:36:24 AM	35289
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	12/4/2017 10:11:54 AM	G47501
Surr: BFB	91.4	15-316		%Rec	5	12/4/2017 10:11:54 AM	G47501
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.095		mg/Kg	5	12/4/2017 10:11:54 AM	B47501
Toluene	ND	0.19		mg/Kg	5	12/4/2017 10:11:54 AM	B47501
Ethylbenzene	ND	0.19		mg/Kg	5	12/4/2017 10:11:54 AM	B47501
Xylenes, Total	ND	0.38		mg/Kg	5	12/4/2017 10:11:54 AM	B47501
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	5	12/4/2017 10:11:54 AM	B47501

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	MB-35291	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35291	RunNo:	47497					
Prep Date:	12/4/2017	Analysis Date:	12/4/2017	SeqNo:	1517588	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35291	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35291	RunNo:	47497					
Prep Date:	12/4/2017	Analysis Date:	12/4/2017	SeqNo:	1517589	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	LCS-35289		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35289		RunNo: 47491					
Prep Date:	12/4/2017		Analysis Date: 12/4/2017		SeqNo: 1516589		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	73.2	114			
Surr: DNOP	3.6		5.000		71.3	70	130			

Sample ID	MB-35289	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	35289		RunNo:	47491				
Prep Date:	12/4/2017	Analysis Date:	12/4/2017		SeqNo:	1516590	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	7.8		10.00		77.7	70	130			

Sample ID	1712079-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-12		Batch ID: 35289		RunNo: 47491					
Prep Date:	12/4/2017		Analysis Date: 12/4/2017		SeqNo: 1516888		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.8	48.88	1.603	92.9	55.8	125			
Surr: DNOP	4.2		4.888		85.6	70	130			

Sample ID	1712079-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-12		Batch ID:	35289		RunNo:	47491				
Prep Date:	12/4/2017		Analysis Date:	12/4/2017		SeqNo:	1516889		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	9.5	47.39	1.603	93.5	55.8	125	2.38	20		
Surr: DNOP	4.1		4.739		86.4	70	130	0	0		

Sample ID	LCS-35267		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35267		RunNo: 47491					
Prep Date:	12/1/2017		Analysis Date: 12/4/2017		SeqNo: 1517261		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.2	70	130			

Sample ID	MB-35267		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35267		RunNo:	47491				
Prep Date:	12/1/2017		Analysis Date:	12/4/2017		SeqNo:	1517263		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	MB-35267	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 35267			RunNo: 47491					
Prep Date:	12/1/2017	Analysis Date: 12/4/2017			SeqNo: 1517263		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517074	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	900		1000		90.0	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517075	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	75.9	131			
Surr: BFB	1100		1000		106	15	316			

Sample ID	1712079-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-12	Batch ID:	G47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517076	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.0	20.16	0	101	77.8	128			
Surr: BFB	850		806.5		106	15	316			

Sample ID	1712079-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-12	Batch ID:	G47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517077	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.0	20.16	0	95.2	77.8	128	5.48	20	
Surr: BFB	810		806.5		100	15	316	0	0	

Sample ID	MB-35265	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	35265	RunNo:	47501					
Prep Date:	12/1/2017	Analysis Date:	12/4/2017	SeqNo:	1517086	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.2	15	316			

Sample ID	LCS-35265	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35265	RunNo:	47501					
Prep Date:	12/1/2017	Analysis Date:	12/4/2017	SeqNo:	1517087	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517118	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	0.85		1.000		85.2	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517120	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.5	77.3	128			
Toluene	0.87	0.050	1.000	0	86.5	79.2	125			
Ethylbenzene	0.85	0.050	1.000	0	85.3	80.7	127			
Xylenes, Total	2.6	0.10	3.000	0	86.9	81.6	129			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.5	80	120			

Sample ID	1712079-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-13	Batch ID:	B47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517121	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7570	0	91.3	80.9	132			
Toluene	0.69	0.038	0.7570	0	91.3	79.8	136			
Ethylbenzene	0.69	0.038	0.7570	0	91.3	79.4	140			
Xylenes, Total	2.1	0.076	2.271	0	91.9	78.5	142			
Surr: 4-Bromofluorobenzene	0.64		0.7570		84.5	80	120			

Sample ID	1712079-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	S-13	Batch ID:	B47501	RunNo:	47501					
Prep Date:		Analysis Date:	12/4/2017	SeqNo:	1517122	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.019	0.7570	0	88.9	80.9	132	2.66	20	
Toluene	0.68	0.038	0.7570	0	89.5	79.8	136	2.00	20	
Ethylbenzene	0.67	0.038	0.7570	0	89.0	79.4	140	2.52	20	
Xylenes, Total	2.0	0.076	2.271	0	89.4	78.5	142	2.74	20	
Surr: 4-Bromofluorobenzene	0.63		0.7570		82.9	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1712079

05-Dec-17

Client: APEX TITAN

Project: SJ 30-6 432s

Sample ID	MB-35265		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	35265		RunNo:	47501				
Prep Date:	12/1/2017		Analysis Date:	12/4/2017		SeqNo:	1517123		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	80	120				

Sample ID	LCS-35265		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 35265		RunNo: 47501					
Prep Date:	12/1/2017		Analysis Date: 12/4/2017		SeqNo: 1517124		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.3	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 Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1712079

RcptNo: 1

Received By: Ashley Gallegos 12/2/2017 8:30:00 AM

Completed By: Ashley Gallegos 12/2/2017 9:50:52 AM

Reviewed By: *sre* 12/04/17

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☒

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____


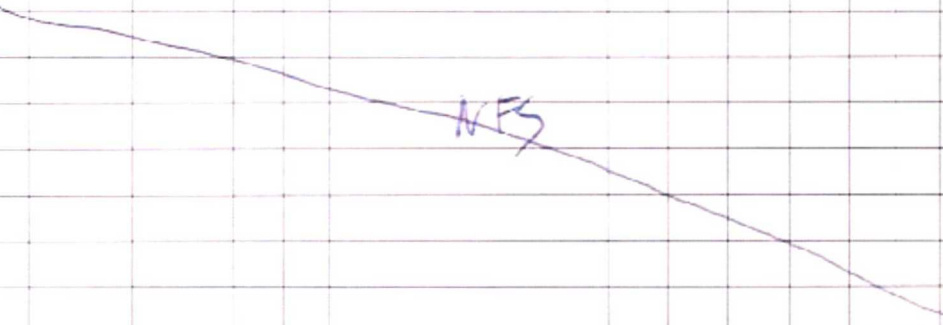
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location: <u>606 S Rio Grande Suite A</u> <u>Aztec, NM 87410</u> Project Manager: <u>K Summers</u>		Hall Environmental! Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87104</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3475</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <u>BTEX soil</u> <u>TPH & 200 ppm</u> <u>Chlorides</u>		Lab use only Due Date: Temp. of coolers when received (C°): <u>0.9</u> Page <u>1</u> of <u>1</u>						
		Sampler's Name: <u>Ranee Doeckilly</u> Sampler's Signature: <u>[Signature]</u>		Proj. No.: <u>725040112352</u> Project Name: <u>SS 30-6 #4325</u> No/Type of Containers:		Lab Sample ID (Lab Use Only)						
Matrix	Date	Time	COG	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/1/17	1210	X	S-12								1712079-001
S	12/1/17	1220	X	S-13								-002
												
Turn around time: <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>SAME DAY</u>												
Relinquished by (Signature): <u>[Signature]</u>		Date: <u>12/1/17</u>	Time: <u>1730</u>	Received by (Signature): <u>[Signature]</u>		Date: <u>12/1/17</u>	Time: <u>1730</u>	NOTES: <u>Bill to Tom Long (EPRD)</u> <u>Non AFE N 32635</u> <u>SAME DAY</u> <u>See at COC Labs</u>				
Relinquished by (Signature):		Date:	Time:	Received by (Signature):		Date:	Time:					
Relinquished by (Signature):		Date:	Time:	Received by (Signature):		Date:	Time:					
Relinquished by (Signature):		Date:	Time:	Received by (Signature):		Date:	Time:					
Matrix Container: WW - Wastewater VOA - 40 ml via W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other												

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

State of New Mexico
Energy Minerals and Natural
Resources

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

NMOCD

MAR 12 2018

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

Form C-141
Revised April 3, 2017

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name San Juan 30-6 #403	Facility Type Natural Gas Gathering Pipeline	
Surface Owner BLM	Mineral Owner BLM	Serial No. NM 076762

LOCATION OF RELEASE

Unit Letter G	Section 9	Township 30N	Range 6W	Feet from the 1817	<u>North</u> South Line	Feet from the 2248	<u>East</u> West Line	County Rio Arriba
-------------------------	---------------------	------------------------	--------------------	---------------------------------	----------------------------	---------------------------------	--------------------------	-----------------------------

Latitude 36.829257 Longitude 107.467122 NAD83

NATURE OF RELEASE


Type of Release Natural gas and Natural Gas Liquids	Volume of Release 22.04 MCF Gas; 5-7 BBLs Condensate	Volume Recovered None
Source of Release Internal Corrosion of the Pipeline	Date and Hour of Occurrence 11/14/2017 @ 12:40 p.m.	Date and Hour of Discovery 11/14/2017 @ 12:40 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? : Courtesy Notification Cory Smith – NMOCD	
By Whom? Thomas Long	Date and Hour November 17, 2017 @ 7:24 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* On November 14, 2017, a contractor reported a release on the San Juan 30-6 #403 pipeline. Enterprise technicians confirmed the release and isolated, depressurized, locked out and tagged out the pipeline.

Describe Area Affected and Cleanup Action Taken.* The contaminant mass was removed by mechanical excavation. The final excavation dimensions measured approximately 41 feet long by 8 feet by 7 feet deep. Approximately 70 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. A third party corrective action report is included with this "Final" C-141.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 5/8/18	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/15/2018	Phone: (713) 381-6684	

* Attach Additional Sheets If Necessary

#NCS 1801655622



CORRECTIVE ACTION REPORT

Property:

**SJ 30-6 #403 Well Tie
NE 1/4, S9 T30N R6W
Rio Arriba County, New Mexico**

February 5, 2018
Apex Project No. 725040112351

NMOCB

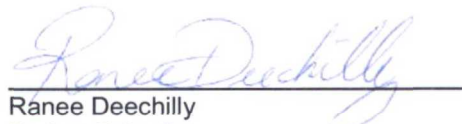
MAR 12 2018

DISTRICT III

Prepared for:

**Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:


Rane Deechilly
Project Scientist

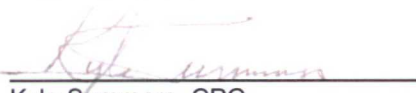

Kyle Summers, CPG
Branch Manager / Senior Geologist

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Figure 1 – Topographic Map

Figure 2 – Site Vicinity Map

Figure 3 – Site Map with Soil Analytical Results

Appendix B: Executed C-138 Solid Waste Acceptance Form

Appendix C: Photographic Documentation

Appendix D: Table

Appendix E: Laboratory Data Sheets &
Chain of Custody Documentation

Appendix F: Regulatory Correspondence

CORRECTIVE ACTION REPORT

SJ 30-6 #403 Well Tie
NE 1/4, S9 T30N R6W
Rio Arriba County, New Mexico

Apex Project No. 725040112351

1.0 INTRODUCTION

1.1 Site Description & Background

The SJ 30-6 #403 well tie release site is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 9, Township 30 North, Range 6 West, in rural Rio Arriba County, New Mexico (36.829257N, 107.467112W), referred to hereinafter as the "Site". The Site is located on land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which transects the area from approximately east to west.

On November 14, 2017, a release of natural gas was discovered at the Site. Enterprise subsequently isolated and locked the line out of service. On November 21, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the corrective action was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the implementation of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table.

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	0
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	20
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

Based on Apex's evaluation of the scoring criteria, the Site would earn a maximum Total Ranking Score of "30". This ranking is based on the following:

- No water wells were identified within a mile of the Site on the OSE Water Right Reporting System (WRRS) database. The release Site is located on a mesa at an elevation of approximately 170 feet above the Navajo Dam Reservoir average water level. Based on the difference in elevation between the lake and the Site and the lack of observable seeps or springs, the depth to groundwater at the Site is anticipated to be greater than 100 feet below grade surface (bgs). This information supports a ranking score of "0" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. The Navajo Dam Reservoir (659 horizontal feet to the north) is situated on the San Juan River which is a source of irrigation water in the area and is also a downstream drinking water supply. The proximity of the Site to the river results in a wellhead/water source protection area ranking score of "20".
- The Site is approximately 659 horizontal feet south and 170 feet above the Navajo Dam Reservoir, resulting in a distance to surface water ranking score of "10".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On November 21, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service. During the pipeline repair and corrective action activities, Halo Services Inc., provided heavy equipment and labor support, and Apex provided environmental consulting support.

On November 27, 2017, eight (8) composite soil samples (CS-1 through CS-8) were collected from the sidewalls and base of the excavation for laboratory analysis. In addition, two (2) composite soil samples (SP-1 and SP-2) were collected from stockpiled soils. Subsequent laboratory analytical results indicate that soils associated with composite soil sample CS-7 and composite soil sample SP-2 exhibit COC concentrations above New Mexico EMNRD OCD standards.

The excavation measured approximately 41 feet long by eight (8) feet wide. The maximum depth of the excavation measured approximately seven (7) feet bgs.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand and weathered sandstone, with sandstone present at the base of the excavation.

A total of approximately 70 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. Following confirmation from the New Mexico ENMRD OCD, the excavation was backfilled with laboratory-confirmed stockpiled soils and imported fill, and contoured to surrounding grade.

Figure 3 is a map with soil sample locations that depicts the approximate location of the excavation in relation to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.2 Soil Sampling Program

Apex field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dextsil PetroFLAG® hydrocarbon analyzer system.

Apex's soil sampling program included the collection of eight (8) composite soil samples (CS-1 through CS-8) from the excavation and two (2) composite soil samples (SP-1 and SP-2) from the stockpiled soils for laboratory analysis.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

3.3 Laboratory Analytical Methods

The composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021/#8260, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015, and chlorides using EPA Method #300.0.

Laboratory results are summarized in **Table 1**, included in **Appendix D**. The executed chain-of-custody form and laboratory data sheets are provided in **Appendix E**.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the New Mexico EMNRD OCD rules, specifically New Mexico Administrative Code 19.15.29 *Release Notification*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the BTEX and TPH concentrations or practical quantitation limits (PQLs) associated with the composite soil samples (CS-1 through CS-8) and composite stockpiled soil sample SP-1 to the New Mexico EMNRD OCD RALs for sites having a total ranking score of "30". Soils associated with composite soil sample SP-2 were removed and transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/treatment, and are not included in the following discussion.

- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil sample from the reused stockpiled soils do not indicate benzene concentrations above the PQLs, which are below the New Mexico EMNRD OCD RAL of 10 milligrams per kilogram (mg/kg).
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil sample from the reused stockpiled soils do not indicate total BTEX concentrations above the PQLs, which are below the New Mexico EMNRD OCD RAL of 50 mg/kg.
- **The laboratory analyses of the composite soil sample CS-7 indicates a combined TPH GRO/DRO/MRO concentration of 504 mg/kg, which is above the New Mexico EMNRD OCD RAL of 100 mg/kg.** TPH MRO (470 mg/kg) is the primary constituent of the elevated combined TPH result for composite soil sample CS-7. The laboratory analyses of the remaining composite soil samples collected from soils remaining in place and the composite soil sample from the reused stockpiled soils indicate combined TPH GRO/DRO/MRO concentrations ranging from below the PQLs to 87 (CS-8), which are below the New Mexico EMNRD OCD RAL of 100 mg/kg for a Site ranking of "30".
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the composite soil sample from the reused stockpiled soils do not indicate chloride concentrations above the PQLs.

Composite soil sample results are provided in **Table 1** in **Appendix D**.

5.0 FINDINGS AND RECOMMENDATIONS

The SJ 30-6 #403 well tie release site is located within the Enterprise ROW in the NE ¼ of Section 9, Township 30 North, Range 6 West, in rural Rio Arriba County, New Mexico. The Site is located on land managed by the United States BLM. The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which transects the area from approximately east to west.

On November 14, 2017, a release of natural gas was discovered at the Site. Enterprise subsequently isolated and locked the line out of service. On November 21, 2017, Enterprise initiated excavation activities to facilitate the repair of the pipeline, and to remediate potential petroleum hydrocarbon impact resulting from the release. The pipeline was repaired and placed back into service.

- The primary objective of the corrective action was to reduce COC concentrations in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty sand and weathered sandstone.
- The excavation measured approximately 41 feet long by eight (8) feet wide. The maximum depth of the excavation measured approximately seven (7) feet bgs.
- Prior to backfilling, eight (8) composite soil samples from the excavation and two (2) composite soil samples (SP-1 and SP-2) from the stockpiled soils were collected for laboratory analysis. Based on analytical results, soils associated with composite soil samples CS-1 through CS-6, and CS-8, and composite stockpiled soil sample SP-1 do not exhibit COC concentrations above the New Mexico EMNRD OCD RALs for a Site ranking of "30".
- **The laboratory analysis of composite soil sample CS-7 indicates a combined TPH GRO/DRO/MRO concentration of 504 mg/kg, which is above the New Mexico EMNRD OCD RAL of 100 mg/kg.**
- A total of approximately 70 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. Following confirmation from the New Mexico EMNRD OCD, the excavation was backfilled with laboratory-confirmed stockpiled soils and imported fill, and contoured to surrounding grade.

Based on laboratory analytical results, no benzene exceedances were identified in soil, weathered sandstone, or sandstone remaining in place. Only the soils associated with composite soil sample CS-7 (sandstone excavation floor) exhibit TPH concentrations (most of which is within the MRO carbon range) above the applicable New Mexico EMNRD OCD standard. Enterprise received regulatory approval for closure on November 29, 2017. Regulatory correspondence is provided in Appendix F.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized



distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures

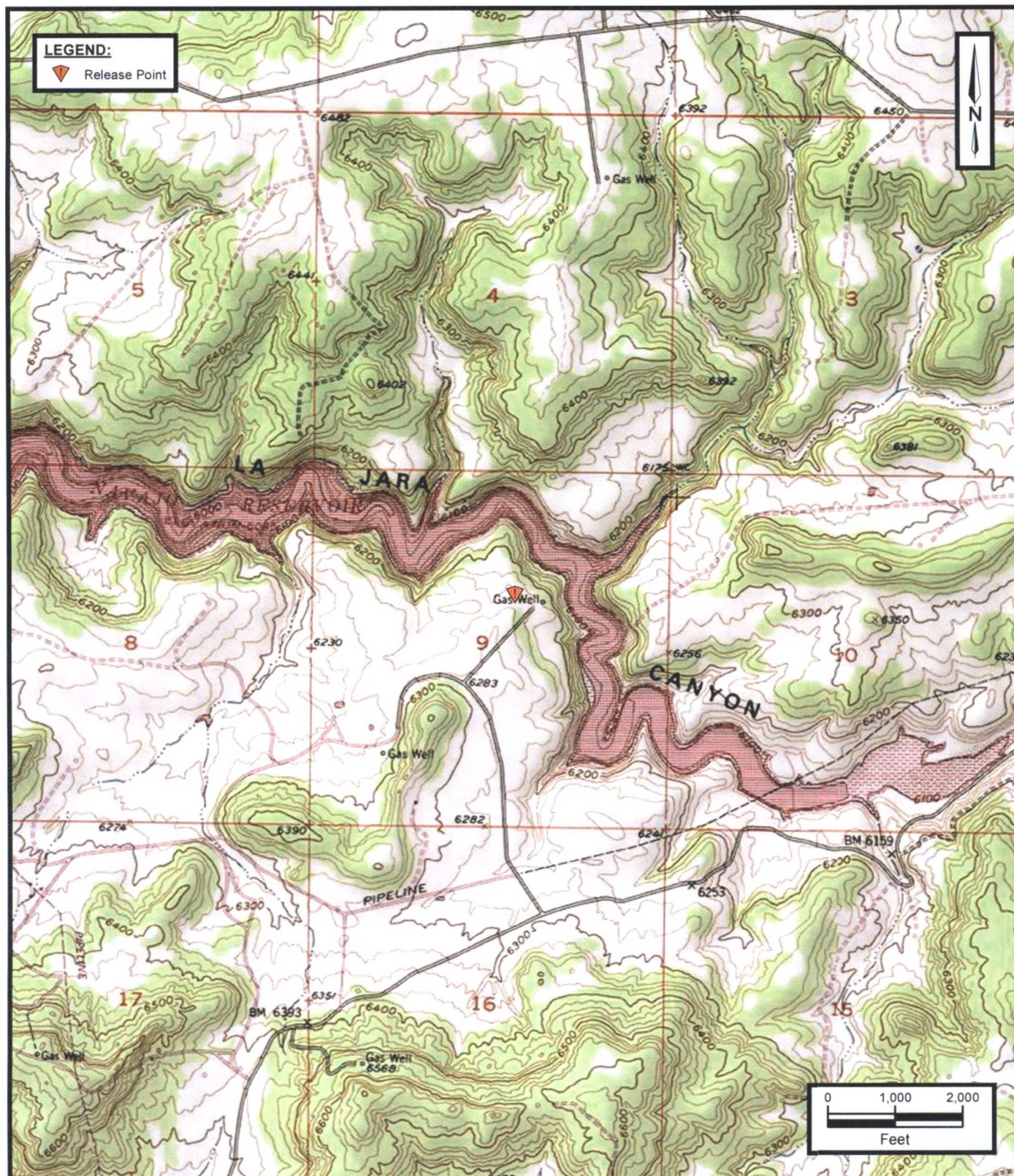


FIGURE 1
Topographic Map

SJ 30-6 #403 Well Tie
NE 1/4, S9 T30N R6W
Rio Arriba County, New Mexico
36.829257 N, 107.467112 W

Project No. 725040112351

Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

Service Layer Credits:
Copyright:© 2013 National Geographic Society, i-cubed, Gomez
Ranch New Mexico 7.5-Minute Quadrangles 1981



SJ 30-6 #403 Well Tie
NE 1/4, S9 T30N R6W
Rio Arriba County, New Mexico
36.829257 N, 107.467112 W

Project No. 725040112351





Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 2
Site Vicinity Map

Service Layer Credits:
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

LEGEND:

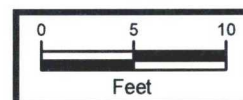
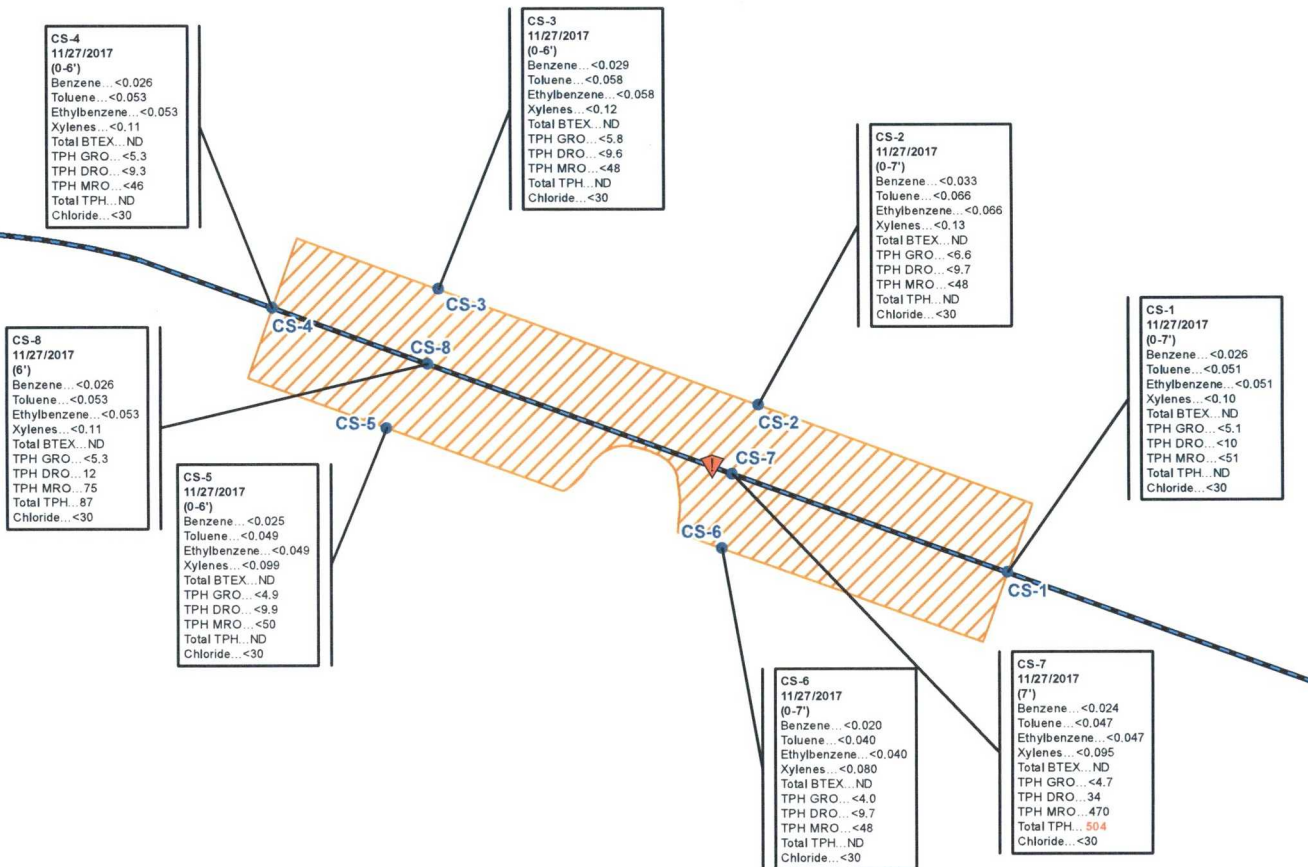
-  Release Point
-  Excavation Composite Soil Sample Location
-  Enterprise SJ 30-6 #403 Well Tie Pipeline Location
-  Extent of Excavation

NOTE:

All Concentrations are Listed in mg/Kg.

All Depths are Listed in Feet BGS.

Concentrations in **Red** Exceed the Applicable NM EMNRD OCD Remediation Action Level.



SJ 30-6 #403 Well Tie
NE 1/4, S9 T30N R6W
Rio Arriba County, New Mexico
36.829257 N, 107.467112 W



Apex TITAN, Inc.
606 South Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3

Site Map with Soil Analytical Results

Project No. 725040112351

APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

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

Form C-138
Revised August 1, 2011
97057-0872
*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: SJ 30-6 #403 Pipeline
3. Location of Material (Street Address, City, State or ULSTR): UL G Section 9 T30N R 6W; 36.829257 -107.467112 Nov. 2017
4. Source and Description of Waste: Hydrocarbon impacted soils associated with a release from a natural gas pipeline. Estimated Volume <u>50</u> <u>yd³</u> bbls Known Volume (to be entered by the operator at the end of the haul) <u>70</u> <u>yd³</u> bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Thomas Long</u> <i>Thomas Long</i> representative or authorized agent for <u>Enterprise Field Services, LLC</u> do hereby PRINT & SIGN NAME COMPANY NAME certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Thomas Long</u> 11-29-17, representative for <u>Enterprise Field Services, LLC</u> authorize Envirotech, Inc. to complete the required Generator Signature testing/sign the Generator Waste Testing Certification. I, <u>Yn CA</u> , representative for <u>Envirotech, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC. 5. Transporter: TBD <u>Right Trucking, ALE, Goparza, Sweazea</u>

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Environmental Manager DATE: 11/29/17

SIGNATURE: Yn CA
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

Photograph 1

View of the initial excavation, facing northwest.



Photograph 2

View of the initial excavation, facing southeast.



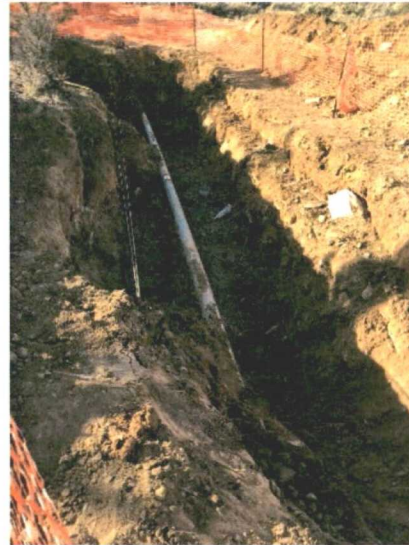
Photograph 3

View of the final excavation, facing southwest.



Photograph 4

View of the final excavation, facing west.



APPENDIX D

Table

TABLE 1
SJ 30-6 #403 Well Tie
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C - Composite G - Grab	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level				10	NE	NE	NE	50				100	NE
Stockpiled Soils Removed and Transported to Landfarm for disposal/treatment													
SP-2	11.27.17	C	Stockpile	<0.027	<0.055	<0.055	<0.11	ND	<5.5	21	160	181	<30
Soil Sample Collected from Stockpiled Soils													
SP-1	11.27.17	C	Stockpile	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<48	ND	<30
Excavation Composite Soil Samples													
CS-1	11.27.17	C	0 to 7	<0.026	<0.051	<0.051	<0.10	ND	<5.1	<10	<51	ND	<30
CS-2	11.27.17	C	0 to 7	<0.033	<0.066	<0.066	<0.13	ND	<6.6	<9.7	<48	ND	<30
CS-3	11.27.17	C	0 to 6	<0.029	<0.058	<0.058	<0.12	ND	<5.8	<9.6	<48	ND	<30
CS-4	11.27.17	C	0 to 6	<0.026	<0.053	<0.053	<0.11	ND	<5.3	<9.3	<46	ND	<30
CS-5	11.27.17	C	0 to 6	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.9	<50	ND	<30
CS-6	11.27.17	C	0 to 7	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<9.7	<48	ND	<30
CS-7	11.27.17	C	7	<0.024	<0.047	<0.047	<0.095	ND	<4.7	34	470	504	<30
CS-8	11.27.17	C	6	<0.026	<0.053	<0.053	<0.11	ND	<5.3	12	75	87	<30

Note: Concentrations in bold and yellow exceed the applicable NM EMNRD OCD Remediation Action Level

ND = Not Detected above the Practical Quantitation Limits

NE = Not established

mg/kg = milligram per kilogram

Appendix E

Laboratory Data Sheets
& Chain of Custody Documentation



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

November 29, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: SJ 30-6 403

OrderNo.: 1711C53

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/28/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-1

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:00:00 PM

Lab ID: 1711C53-001

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 2:11:20 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/28/2017 10:17:34 AM	35180
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	11/28/2017 10:17:34 AM	35180
Surr: DNOP	78.7	70-130		%Rec	1	11/28/2017 10:17:34 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	11/28/2017 8:19:07 PM	G47368
Surr: BFB	88.0	15-316		%Rec	1	11/28/2017 8:19:07 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	11/28/2017 8:19:07 PM	B47368
Toluene	ND	0.051		mg/Kg	1	11/28/2017 8:19:07 PM	B47368
Ethylbenzene	ND	0.051		mg/Kg	1	11/28/2017 8:19:07 PM	B47368
Xylenes, Total	ND	0.10		mg/Kg	1	11/28/2017 8:19:07 PM	B47368
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	11/28/2017 8:19:07 PM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-2

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:10:00 PM

Lab ID: 1711C53-002

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 2:23:44 PM	35185
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/28/2017 10:41:49 AM	35180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 10:41:49 AM	35180
Surr: DNOP	87.2	70-130		%Rec	1	11/28/2017 10:41:49 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.6		mg/Kg	1	11/28/2017 8:42:33 PM	G47368
Surr: BFB	90.5	15-316		%Rec	1	11/28/2017 8:42:33 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.033		mg/Kg	1	11/28/2017 8:42:33 PM	B47368
Toluene	ND	0.066		mg/Kg	1	11/28/2017 8:42:33 PM	B47368
Ethylbenzene	ND	0.066		mg/Kg	1	11/28/2017 8:42:33 PM	B47368
Xylenes, Total	ND	0.13		mg/Kg	1	11/28/2017 8:42:33 PM	B47368
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	11/28/2017 8:42:33 PM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-3

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:20:00 PM

Lab ID: 1711C53-003

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 11:30:15 AM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/28/2017 11:06:16 AM	35180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 11:06:16 AM	35180
Surr: DNOP	83.6	70-130		%Rec	1	11/28/2017 11:06:16 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg	1	11/28/2017 9:05:50 PM	G47368
Surr: BFB	89.9	15-316		%Rec	1	11/28/2017 9:05:50 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.029		mg/Kg	1	11/28/2017 9:05:50 PM	B47368
Toluene	ND	0.058		mg/Kg	1	11/28/2017 9:05:50 PM	B47368
Ethylbenzene	ND	0.058		mg/Kg	1	11/28/2017 9:05:50 PM	B47368
Xylenes, Total	ND	0.12		mg/Kg	1	11/28/2017 9:05:50 PM	B47368
Surr: 4-Bromofluorobenzene	89.1	80-120		%Rec	1	11/28/2017 9:05:50 PM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-4

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:30:00 PM

Lab ID: 1711C53-004

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 11:42:40 AM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/28/2017 11:34:56 AM	35180
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/28/2017 11:34:56 AM	35180
Surr: DNOP	88.9	70-130		%Rec	1	11/28/2017 11:34:56 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	11/28/2017 10:57:06 AM	G47368
Surr: BFB	87.9	15-316		%Rec	1	11/28/2017 10:57:06 AM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	11/28/2017 10:57:06 AM	B47368
Toluene	ND	0.053		mg/Kg	1	11/28/2017 10:57:06 AM	B47368
Ethylbenzene	ND	0.053		mg/Kg	1	11/28/2017 10:57:06 AM	B47368
Xylenes, Total	ND	0.11		mg/Kg	1	11/28/2017 10:57:06 AM	B47368
Surr: 4-Bromofluorobenzene	87.3	80-120		%Rec	1	11/28/2017 10:57:06 AM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-5

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:40:00 PM

Lab ID: 1711C53-005

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 11:55:04 AM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/28/2017 11:59:24 AM	35180
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/28/2017 11:59:24 AM	35180
Surr: DNOP	87.6	70-130		%Rec	1	11/28/2017 11:59:24 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/28/2017 11:20:25 AM	G47368
Surr: BFB	93.0	15-316		%Rec	1	11/28/2017 11:20:25 AM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/28/2017 11:20:25 AM	B47368
Toluene	ND	0.049		mg/Kg	1	11/28/2017 11:20:25 AM	B47368
Ethylbenzene	ND	0.049		mg/Kg	1	11/28/2017 11:20:25 AM	B47368
Xylenes, Total	ND	0.099		mg/Kg	1	11/28/2017 11:20:25 AM	B47368
Surr: 4-Bromofluorobenzene	89.5	80-120		%Rec	1	11/28/2017 11:20:25 AM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-6

Project: SJ 30-6 403

Collection Date: 11/27/2017 1:50:00 PM

Lab ID: 1711C53-006

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:07:29 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/28/2017 12:23:50 PM	35180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 12:23:50 PM	35180
Surr: DNOP	90.7	70-130		%Rec	1	11/28/2017 12:23:50 PM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/28/2017 11:43:54 AM	G47368
Surr: BFB	88.1	15-316		%Rec	1	11/28/2017 11:43:54 AM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/28/2017 11:43:54 AM	B47368
Toluene	ND	0.040		mg/Kg	1	11/28/2017 11:43:54 AM	B47368
Ethylbenzene	ND	0.040		mg/Kg	1	11/28/2017 11:43:54 AM	B47368
Xylenes, Total	ND	0.080		mg/Kg	1	11/28/2017 11:43:54 AM	B47368
Surr: 4-Bromofluorobenzene	85.3	80-120		%Rec	1	11/28/2017 11:43:54 AM	B47368

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

CLIENT: APEX TITAN

Client Sample ID: CS-7

Project: SJ 30-6 403

Collection Date: 11/27/2017 2:00:00 PM

Lab ID: 1711C53-007

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:19:54 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	34	10		mg/Kg	1	11/28/2017 12:48:28 PM	35180
Motor Oil Range Organics (MRO)	470	50		mg/Kg	1	11/28/2017 12:48:28 PM	35180
Surr: DNOP	104	70-130		%Rec	1	11/28/2017 12:48:28 PM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/28/2017 12:07:27 PM	G47368
Surr: BFB	89.8	15-316		%Rec	1	11/28/2017 12:07:27 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/28/2017 12:07:27 PM	B47368
Toluene	ND	0.047		mg/Kg	1	11/28/2017 12:07:27 PM	B47368
Ethylbenzene	ND	0.047		mg/Kg	1	11/28/2017 12:07:27 PM	B47368
Xylenes, Total	ND	0.095		mg/Kg	1	11/28/2017 12:07:27 PM	B47368
Surr: 4-Bromofluorobenzene	86.8	80-120		%Rec	1	11/28/2017 12:07:27 PM	B47368

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

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

Analytical Report

Lab Order 1711C53

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: CS-8

Project: SJ 30-6 403

Collection Date: 11/27/2017 2:10:00 PM

Lab ID: 1711C53-008

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 12:32:19 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	11/28/2017 1:37:31 PM	35180
Motor Oil Range Organics (MRO)	75	50		mg/Kg	1	11/28/2017 1:37:31 PM	35180
Surr: DNOP	100	70-130		%Rec	1	11/28/2017 1:37:31 PM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	11/28/2017 12:30:54 PM	G47368
Surr: BFB	84.8	15-316		%Rec	1	11/28/2017 12:30:54 PM	G47368
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	11/28/2017 12:30:54 PM	B47368
Toluene	ND	0.053		mg/Kg	1	11/28/2017 12:30:54 PM	B47368
Ethylbenzene	ND	0.053		mg/Kg	1	11/28/2017 12:30:54 PM	B47368
Xylenes, Total	ND	0.11		mg/Kg	1	11/28/2017 12:30:54 PM	B47368
Surr: 4-Bromofluorobenzene	85.0	80-120		%Rec	1	11/28/2017 12:30:54 PM	B47368

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	MB-35185	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35185	RunNo:	47366					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512112	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35185	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35185	RunNo:	47366					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512113	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			

Sample ID	MB-35186	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512196	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35186	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512197	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	LCS-35180		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510950		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	73.2	114			
Surr: DNOP	3.9		5.000		78.6	70	130			

Sample ID	MB-35180		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35180		RunNo:	47354				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510951		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	8.5		10.00		85.5	70	130				

Sample ID	LCS-35150		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35150		RunNo: 47354					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1512100		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID	MB-35150		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35150		RunNo:	47354				
Prep Date:	11/27/2017		Analysis Date:	11/28/2017		SeqNo:	1512101		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	10		10.00		103	70	130				

Sample ID	1711C53-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	CS-1		Batch ID:	35180		RunNo:	47354				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1512102		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	9.7	48.26	2.119	91.3	55.8	125				
Surr: DNOP	4.4		4.826		91.4	70	130				

Sample ID	1711C53-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-1		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1512103		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.59	2.119	100	55.8	125	9.77	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	1711C53-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	CS-1	Batch ID:	35180	RunNo:	47354					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512103	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		4.859		97.8	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511580	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	890		1000		89.4	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511581	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	88.7	75.9	131			
Surr: BFB	1000		1000		100	15	316			

Sample ID	1711C53-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	CS-1	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511583	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.1	25.72	0	97.1	77.8	128			
Surr: BFB	1100		1029		103	15	316			

Sample ID	1711C53-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	CS-1	Batch ID:	G47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511585	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.1	25.72	0	95.2	77.8	128	1.96	20	
Surr: BFB	1000		1029		102	15	316	0	0	

Sample ID	MB-35154	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511588	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.1	15	316			

Sample ID	LCS-35154	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	35154	RunNo:	47368					
Prep Date:	11/27/2017	Analysis Date:	11/28/2017	SeqNo:	1511589	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511605	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	0.90		1.000		90.0	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511606	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	93.2	77.3	128			
Toluene	0.93	0.050	1.000	0	92.6	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	80	120			

Sample ID	1711C53-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	CS-2	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511610	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.033	1.311	0	92.6	80.9	132			
Toluene	1.2	0.066	1.311	0	93.0	79.8	136			
Ethylbenzene	1.2	0.066	1.311	0	93.2	79.4	140			
Xylenes, Total	3.7	0.13	3.932	0	93.8	78.5	142			
Surr: 4-Bromofluorobenzene	1.2		1.311		88.8	80	120			

Sample ID	1711C53-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	CS-2	Batch ID:	B47368	RunNo:	47368					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511611	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.033	1.311	0	90.1	80.9	132	2.75	20	
Toluene	1.2	0.066	1.311	0	90.5	79.8	136	2.69	20	
Ethylbenzene	1.2	0.066	1.311	0	90.6	79.4	140	2.83	20	
Xylenes, Total	3.6	0.13	3.932	0	91.5	78.5	142	2.45	20	
Surr: 4-Bromofluorobenzene	1.2		1.311		90.4	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C53

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	MB-35154		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 35154		RunNo: 47368					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1511613		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	80	120			

Sample ID	LCS-35154		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 35154		RunNo: 47368					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1511614		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	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 Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1711C53

RcptNo: 1

Received By: Anne Thorne

11/28/2017 7:00:00 AM

Anne Thorne

Completed By: Anne Thorne

11/28/2017 7:58:13 AM

Anne Thorne

Reviewed By: DDS

11/28/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


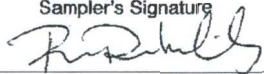
Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>606 S Rio Grande, Suite A</u> <u>Aztec, NM 87410</u> Project Manager <u>K. Summers</u>		Laboratory: <u>Hall Environmental Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>see notes</u>		ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: center;"> BTEX Seal TPH CARB/DEQ/MCO Soils Chlorides </div>										Lab use only Due Date: _____ Temp. of coolers <u>1.0</u> when received (C°): _____ 1 2 3 4 5 Page _____ of _____											
		Sampler's Name <u>Ranee Deechilly</u> Sampler's Signature 												Proj. No. <u>725640112351</u> Project Name <u>ST 30-6 #403</u> No/Type of Containers _____											
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)												
S	11/27/17	1300	X		CS-1						1		X	X	X	1711CS3-001									
S	11/27/17	1310	X		CS-2						1		X	X	X	202									
S	11/27/17	1320	✓		CS-3						1		X	X	X	203									
S	11/27/17	1330	X		CS-4						1		X	X	X	204									
S	11/27/17	1340	X		CS-5						1		X	X	X	205									
S	11/27/17	1350	✓		CS-6						1		X	X	X	206									
S	11/27/17	1400	X		CS-7						1		X	X	X	207									
S	11/27/17	1410	X		CS-8						1		X	X	X	208									
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush SAME DAY																									
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:		NOTES: <u>Bill to Tom Long (EPR00)</u> <u>Non AFE N32597</u> SAME DAY <u>CC Seal on</u>											
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:													
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:													
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:													
Matrix: WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other																									



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

November 29, 2017

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: SJ 30-6 403

OrderNo.: 1711C55

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/28/2017 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1711C55

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-1

Project: SJ 30-6 403

Collection Date: 11/27/2017 2:30:00 PM

Lab ID: 1711C55-001

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 1:46:46 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/28/2017 10:05:54 AM	35180
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/28/2017 10:05:54 AM	35180
Surr: DNOP	82.2	70-130		%Rec	1	11/28/2017 10:05:54 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/28/2017 2:03:04 PM	G47369
Surr: BFB	103	15-316		%Rec	1	11/28/2017 2:03:04 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/28/2017 2:03:04 PM	B47369
Toluene	ND	0.048		mg/Kg	1	11/28/2017 2:03:04 PM	B47369
Ethylbenzene	ND	0.048		mg/Kg	1	11/28/2017 2:03:04 PM	B47369
Xylenes, Total	ND	0.097		mg/Kg	1	11/28/2017 2:03:04 PM	B47369
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/28/2017 2:03:04 PM	B47369

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	Page 1 of 6
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1711C55

Date Reported: 11/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: SP-2

Project: SJ 30-6 403

Collection Date: 11/27/2017 2:40:00 PM

Lab ID: 1711C55-002

Matrix: SOIL

Received Date: 11/28/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	11/28/2017 1:59:11 PM	35186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	21	9.6		mg/Kg	1	11/28/2017 10:33:32 AM	35180
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	11/28/2017 10:33:32 AM	35180
Surr: DNOP	85.3	70-130		%Rec	1	11/28/2017 10:33:32 AM	35180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg	1	11/28/2017 2:26:48 PM	G47369
Surr: BFB	107	15-316		%Rec	1	11/28/2017 2:26:48 PM	G47369
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.027		mg/Kg	1	11/28/2017 2:26:48 PM	B47369
Toluene	ND	0.055		mg/Kg	1	11/28/2017 2:26:48 PM	B47369
Ethylbenzene	ND	0.055		mg/Kg	1	11/28/2017 2:26:48 PM	B47369
Xylenes, Total	ND	0.11		mg/Kg	1	11/28/2017 2:26:48 PM	B47369
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	11/28/2017 2:26:48 PM	B47369

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C55

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	MB-35186	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512196	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35186	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35186	RunNo:	47367					
Prep Date:	11/28/2017	Analysis Date:	11/28/2017	SeqNo:	1512197	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C55

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	LCS-35180		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35180		RunNo: 47354					
Prep Date:	11/28/2017		Analysis Date: 11/28/2017		SeqNo: 1510950		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	73.2	114			
Surr: DNOP	3.9		5.000		78.6	70	130			

Sample ID	MB-35180		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	35180		RunNo:	47354				
Prep Date:	11/28/2017		Analysis Date:	11/28/2017		SeqNo:	1510951		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	8.5		10.00		85.5	70	130				

Sample ID	LCS-35150		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 35150		RunNo: 47354					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1512100		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID	MB-35150		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 35150		RunNo: 47354					
Prep Date:	11/27/2017		Analysis Date: 11/28/2017		SeqNo: 1512101		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C55

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511549	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	1100		1000		110	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511550	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	89.2	75.9	131			
Surr: BFB	1200		1000		116	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711C55

29-Nov-17

Client: APEX TITAN

Project: SJ 30-6 403

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511568	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		103	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B47369	RunNo:	47369					
Prep Date:		Analysis Date:	11/28/2017	SeqNo:	1511569	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	77.3	128			
Toluene	0.96	0.050	1.000	0	96.5	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	95.5	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	95.0	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	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 Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
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: APEX AZTEC

Work Order Number: 1711C55

RcptNo: 1

Received By: Anne Thorne

11/28/2017 7:00:00 AM

Anne Thorne

Completed By: Anne Thorne

11/28/2017 8:30:19 AM

Anne Thorne

Reviewed By: *mo*

11/28/17

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒


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

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX		Laboratory: <u>Hall Environmental Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); display: inline-block;"> BTEX 8021 TPH GEL DRO/MER SOLS C-Hydrocs </div>										Lab use only Due Date: _____ Temp. of coolers <u>1.0</u> when received (C°): <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table> Page <u>1</u> of <u>1</u>					1	2	3	4	5		
		1	2											3	4	5									
Office Location: <u>606 S. Rio Grande, Suite A</u> <u>Aztec, NM 87410</u> Project Manager: <u>R. Summers</u>		Sampler's Name: <u>Ranee Deechilly</u> Sampler's Signature: <u>[Signature]</u>																							
Proj. No.: <u>725040112351</u>		Project Name: <u>SJ 30-6 #403</u>		No/Type of Containers: _____																					
Matrix	Date	Time	Coed	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)												
S	11/27/17	1430	X		SP-1							1	X	X	X	1711C55-001									
S	11/27/17	1440	X		SP-2							1	X	X	X	202									
<div style="transform: rotate(-30deg); display: inline-block; font-size: 2em;"> NKS </div>																									
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush SAME DAY																									
Relinquished by (Signature)		Date:		Time:		Received by (Signature)		Date:		Time:		NOTES: Bill to Tom Long (EP200) Non APE N32597 SAME DAY <u>COC Seal</u>													
Relinquished by (Signature)		Date:		Time:		Received by (Signature)		Date:		Time:															
Relinquished by (Signature)		Date:		Time:		Received by (Signature)		Date:		Time:															
Relinquished by (Signature)		Date:		Time:		Received by (Signature)		Date:		Time:															

Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil
 VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

Appendix F

Regulatory Correspondence

From: [Fields, Vanessa, EMNRD](#)
To: [Long, Thomas](#); [Smith, Cory, EMNRD](#); l1thomas@blm.gov
Cc: [Stone, Brian](#)
Subject: RE: San Juan 30-6 #403 - UL G Section 9 T30N R 6W; 36.829257 -107.467112
Date: Wednesday, November 29, 2017 11:12:08 AM

Good morning Tom,

Based on our conversation on the San Juan 30-6 #403 and the depth of sample CS-7 collected at of 6' the OCD grants Enterprise approval for the variance on closure.

Please provide this e-mail in your final C-141.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, November 28, 2017 4:56 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; l1thomas@blm.gov
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: San Juan 30-6 #403 - UL G Section 9 T30N R 6W; 36.829257 -107.467112

Cory,

Please find the attached site sketch and laboratory reports for the SJ 30-6 #403 excavation and stock piled soil. Enterprise has determined this release is reportable based on the volume of subsurface impacts. All sample results are below the site specific remediation standard except for CS-7 with as sum of 504 ppm TPH (470 ppm MRO + 34 ppm DRO). Sample CS-7 is on hard sandstone. We attempted to remove additional sandstone by removing the "butter bar" on the backhoe bucket, but removal of additional sandstone was unsuccessful. Enterprise requests closure with the current laboratory result of 504 ppm TPH for CS-7, as that the majority of the contaminants are Motor Oil Range organics and it is the base of the excavation which is competent sandstone. Enterprise will properly dispose of the southern stockpile of soil and re-use the northern stockpile of soil as backfill material. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, November 22, 2017 3:38 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); l1thomas@blm.gov
Cc: Stone, Brian
Subject: FW: San Juan 30-6 #403 - UL G Section 9 T30N R 6W; 36.829257 -107.467112

Cory,

This email is to notify you that Enterprise will be collecting soil sample for laboratory analysis on Monday, November 27, 2017 at 12:00 p.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, November 17, 2017 7:24 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
Cc: Stone, Brian
Subject: San Juan 30-6 #403 - UL G Section 9 T30N R 6W; 36.829257 -107.467112

Cory,

This email is a courtesy notification that Enterprise had a release on the San Juan 30-6 #403. This release has not been determined reportable. No fluids were observed on the ground surface. The release is located at UL G Section 9 T30N R 6W; 36.829257 -107.467112. I will let you know more when we start excavating.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)

505-215-4727 (Cell)
tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

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

State of New Mexico
Energy Minerals and Natural
Resources

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

NMOCD

MAR 22 2018

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lateral 2C-24 Pipeline	Facility Type Natural Gas Gathering Pipeline	
Surface Owner Jicarilla Apache Tribe	Mineral Owner Jicarilla Apache Tribe	Serial No. N/A

LOCATION OF RELEASE

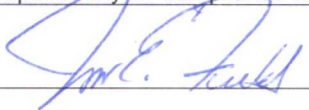

Unit Letter C	Section 11	Township 24N	Range 5W	Feet from the 408	<u>North</u> / South Line	Feet from the 2263	East / <u>West</u> Line	County Rio Arriba
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Latitude 36.332369 Longitude -107.332138 NAD83

NATURE OF RELEASE

Type of Release Natural Gas and Natural Gas Liquids	Volume of Release Unknown	Volume Recovered None
Source of Release Suspected Internal Corrosion	Date and Hour of Occurrence 3/9/2018 at 12:41 p.m.	Date and Hour of Discovery 3/9/2018 at 12:41 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? : Notification Cory Smith – NMOCD; Hobson Sandoval - JAEPO	
By Whom? Thomas Long	Date and Hour March 9, 2018 at 1:48 p.m.	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. None.	
If a Watercourse was Impacted, Describe Fully.* The release is located in a small ephemeral wash. No fluids were observed on the ground surface.		
Describe Cause of Problem and Remedial Action Taken On March 9, 2018, a third party reported a release of natural gas on the Lateral 2C-24 pipeline. Enterprise confirmed the release and isolated, depressurized, locked out and tagged out the pipeline.		
Describe Area Affected and Cleanup Action Taken.* No fluids were observed on the ground surface. Repairs and remediation activities are in the scheduling process. A third party corrective action report will be included with the "Final." C-141.		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 3/27/18	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: Sample for	Attached <input checked="" type="checkbox"/>
Date: 3/15/2018	Phone: (713) 381-6684	TPH, BTEX, Benzene

* Attach Additional Sheets If Necessary

#NCS 1808 648104

3

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/22/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number NCS 1808648 04 . has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before N/A . If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

District I
1625 N. French Dr., Hobbs, NM 88240
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Santa Fe, NM 87505

NMOCD

Form C-141
Revised April 3, 2017

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

DISTRICT III

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Enterprise Field Services, LLC,	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lybrook Pump Station	Facility Type Natural Gas Liquids Pumping Station	
Surface Owner Private	Mineral Owner Federal	Serial No. N/A

LOCATION OF RELEASE

Unit Letter C	Section 14	Township 23N	Range 7W	Feet from the 114	North South Line	Feet from the 448	East West Line	County Rio Arriba
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Latitude 36.232608 Longitude -107.546006 NAD83

NATURE OF RELEASE

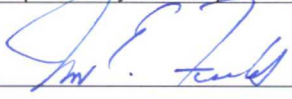
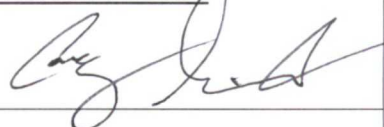
Type of Release Natural Gas Liquids (NGLs)	Volume of Release To Be Determined	Volume Recovered None
Source of Release Equipment Failure	Date and Hour of Occurrence 3/14/2018 at 2:41 p.m.	Date and Hour of Discovery 3/14/2018 at 2:41 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? : Notification Cory Smith – NMOCD; NRC – Incident #1206809	
By Whom? Thomas Long	Date and Hour March 14, 2018 at 4:56 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. None.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken. On March 14, 2018, an Enterprise Technician discovered a small leak on the threads of the 1 inch plug on the 10-Inch Red Line (Line ID #701). The pipeline was isolated, locked out and tagged out.

Describe Area Affected and Cleanup Action Taken. The repairs are in progress and are anticipated to be completed by March 23, 2018. A "Final." C-141 will be submitted upon completion of repairs.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Environmental	Approval Date: 3/30/18	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: Sample	Attached <input type="checkbox"/>
Date: 3/23/2018	Phone: (713) 381-6684 Area Below Leaking Valve For	

* Attach Additional Sheets If Necessary

#NCS 1808942753 Tph, Btex, Benzene

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/29/14 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number #NCS 1808942753 . has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District III office in Aztec on or before N/A. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lateral 2C-40 Pipeline	Facility Type Natural Gas Gathering Pipeline	
Surface Owner Private	Mineral Owner BLM	Serial No. N/A

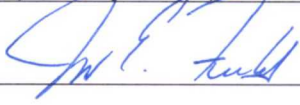
LOCATION OF RELEASE

Unit Letter D	Section 3	Township 25N	Range 3W	Feet from the 1318	North /South Line	Feet from the 540	East/ West Line	County Rio Arriba
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Latitude 36.432175 Longitude -107.139562 NAD83

NATURE OF RELEASE

Type of Release Natural Gas and Natural Gas Liquids	Volume of Release Unknown	Volume Recovered None
Source of Release Suspected internal corrosion of the pipeline	Date and Hour of Occurrence 5/4/2018 at 2:00 p.m.	Date and Hour of Discovery 5/4/2018 at 2:00 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? : Courtesy Notification Cory Smith - NMOCD	
By Whom? Thomas Long	Date and Hour May 4, 2018 @ 5:43 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken On May 4, 2018, an Enterprise technician discovered a release of natural gas and natural gas liquids on the Lateral 2C-40 pipeline. The pipeline was isolated, depressurized, locked out and tagged out.		
Describe Area Affected and Cleanup Action Taken.* An area or approximately six (6) feet long by six (6) feet wide was impacted by the released fluids. Repair and remediation activities are in the scheduling process. A third party corrective action report will be included with the "Final." C-141.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields		Approved by Environmental Specialist: 	
Title: Director, Environmental		Approval Date: 5/23/18	Expiration Date:
E-mail Address: jefields@eprod.com		Conditions of Approval: sample for	Attached <input checked="" type="checkbox"/>
Date: 5-14-18	Phone: (713) 381-6684	TPH, BTEX, Benzene	

* Attach Additional Sheets If Necessary

NCS 1814339445

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/18/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number NCS 181 4339445 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

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for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

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Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
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jim.griswold@state.nm.us

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Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Enterprise Field Services, LLC,	Contact Thomas Long	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lybrook Pump Station	Facility Type Natural Gas Liquids Pumping Station	
Surface Owner Private	Mineral Owner Federal	Serial No. N/A

LOCATION OF RELEASE

Unit Letter C	Section 14	Township 23N	Range 7W	Feet from the 114	North /South Line	Feet from the 448	East/ West Line	County Rio Arriba
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Latitude 36.232608 Longitude -107.546006 NAD83

NATURE OF RELEASE

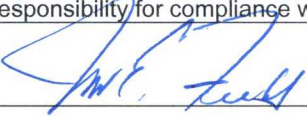
Type of Release Natural Gas Liquids (NGLs)	Volume of Release 336.7 BBLs of NGLs	Volume Recovered None
Source of Release Equipment Failure	Date and Hour of Occurrence 3/14/2018 at 2:41 p.m.	Date and Hour of Discovery 3/14/2018 at 2:41 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? : Notification Cory Smith – NMOCD; NRC – Incident #1206809	
By Whom? Thomas Long	Date and Hour March 14, 2018 at 4:56 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. None.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken. On March 14, 2018, an Enterprise Technician discovered a small leak on the threads of the 1 inch plug on the 10-Inch Red Line (Line ID #701). The pipeline was isolated, locked out and tagged out.

Describe Area Affected and Cleanup Action Taken. The repairs were completed and the pipeline returned to service on March 24, 2018. At the request of NMOCD, a soil sample was collected for laboratory analysis from beneath the valve from where the leaked occurred. No contaminants of concern exceeding NMOCD soil remediation standards were identified. The laboratory report is included with this Final C-141.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon E. Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: 6/18/18	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-23-18	Phone: (713) 381-6684	

* Attach Additional Sheets If Necessary

#NCS1808942753

8



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

April 20, 2018

Thomas Long
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL:
FAX

RE: MAPL Lybrook Pumping Station

OrderNo.: 1804740

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/13/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: SC-1

Project: MAPL Lybrook Pumping Station

Collection Date: 4/12/2018 10:15:00 AM

Lab ID: 1804740-001

Matrix: SOIL

Received Date: 4/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	96	4.8		mg/Kg	1	4/18/2018 1:14:38 PM	37609
Surr: BFB	119	70-130		%Rec	1	4/18/2018 1:14:38 PM	37609
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/19/2018 3:17:49 PM	37670
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/19/2018 3:17:49 PM	37670
Surr: DNOP	99.4	70-130		%Rec	1	4/19/2018 3:17:49 PM	37670
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.024		mg/Kg	1	4/18/2018 1:14:38 PM	37609
Toluene	0.80	0.048		mg/Kg	1	4/18/2018 1:14:38 PM	37609
Ethylbenzene	0.37	0.048		mg/Kg	1	4/18/2018 1:14:38 PM	37609
Xylenes, Total	0.92	0.097		mg/Kg	1	4/18/2018 1:14:38 PM	37609
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	4/18/2018 1:14:38 PM	37609
Surr: Toluene-d8	103	70-130		%Rec	1	4/18/2018 1:14:38 PM	37609

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804740

20-Apr-18

Client: Enterprise Field Services
Project: MAPL Lybrook Pumping Station

Sample ID	LCS-37670		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37670		RunNo: 50693					
Prep Date:	4/18/2018		Analysis Date: 4/19/2018		SeqNo: 1644506		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.0	70	130			
Surr: DNOP	4.2		5.000		84.7	70	130			

Sample ID	MB-37670		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	37670		RunNo:	50693				
Prep Date:	4/18/2018		Analysis Date:	4/19/2018		SeqNo:	1644507		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	9.6		10.00		96.1	70	130				

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804740

20-Apr-18

Client: Enterprise Field Services

Project: MAPL Lybrook Pumping Station

Sample ID	mb-37609		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 37609		RunNo: 50621					
Prep Date:	4/16/2018		Analysis Date: 4/17/2018		SeqNo: 1642161		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	0.62		0.5000		124	70	130			
Surr: Toluene-d8	0.47		0.5000		93.2	70	130			

Sample ID	lcs-37609		SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC		Batch ID: 37609		RunNo: 50621					
Prep Date:	4/16/2018		Analysis Date: 4/17/2018		SeqNo: 1642551		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804740

20-Apr-18

Client: Enterprise Field Services
Project: MAPL Lybrook Pumping Station

Sample ID	lcs-37609		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 37609		RunNo: 50621					
Prep Date:	4/16/2018		Analysis Date: 4/17/2018		SeqNo: 1642144		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.7	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID	mb-37609		SampType:	MBLK		TestCode:	EPA Method 8015D Mod: Gasoline Range				
Client ID:	PBS		Batch ID:	37609		RunNo:	50621				
Prep Date:	4/16/2018		Analysis Date:	4/17/2018		SeqNo:	1642145		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	570		500.0		114	70	130				

Qualifiers:

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

Sample Log-In Check List

Client Name: Enterprise

Work Order Number: 1804740

RcptNo: 1

Received By: Anne Thorne

4/13/2018 7:00:00 AM

Completed By: **Anne Thorne**

4/13/2018 3:24:24 PM

Reviewed By: WBS

4116/18

mw 4/16/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Client

Log In

- | | | | |
|--|---|--|--|
| 3. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 9. VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA Vials <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
- # of preserved bottles checked for pH:

none ☒ Adjusted?

Checked by: _____

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 4/16/18
 (<2 or >12 unless noted)

(<20 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

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

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	1.0	Good	Yes			

Client: Enterprise Products

Client: Enterprise Products

Mailing Address: 614 Reilly Ave.

Farmington, N.H. 87401

Phone #: 565-599-2286

email or Fax#: tjlonge@prod.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ **Standard** ☐ **Rush**

Project Name: MAPL Lybrook Pumping Station

Project #:

Project Manager:

Thomas Long

Sampler: TJC

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

1-12-18	1710	Memo Log
---------	------	----------

Received by:

Christy Wark 4/12/16 1710

Date	Time
------	------

4/12/18 1710

Remarks:

Date:	Time:	Relinquished by:
-------	-------	------------------

12/18	1814	Christenhuks
-------	------	--------------

Received by:

04/13/18
0700

Date	Time
------	------

04/13/18
0700



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

	X	BTEX + MTBE + TMB's (8021)
		BTEX + MTBE + TPH (Gas only)
	X	TPH 8015B (GRO / DRO / MRO)
		TPH (Method 418.1)
		EDB (Method 504.1)
		PAH's (8310 or 8270 SIMS)
		RCRA 8 Metals
		Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)
		8081 Pesticides / 8082 PCB's
		8260B (VOA)
		8270 (Semi-VOA)
		Air Bubbles (Y or N)

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.