## 3R-438

# Release Report/ General Correspondence

**C-141** 

Date: DEC 2014 JAN 2015

OIL CONS. DIV DIST. 3

36.863670District 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

Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

DEC 2 2 2014 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15,29 NMAC.

#### 87505 Release Notification and Corrective Action **OPERATOR** ☐ Initial Report □ Updated Name of Company: Enterprise Field Services LLC Contact: Thomas Long Address: 614 Reilly Ave, Farmington, NM 87401 Telephone No. 505-599-2286 Facility Name: Blanco Vent Tank Release RP#3R-438-0 Facility Type: Natural Gas Compressing Facility Surface Owner: Private Mineral Owner:BLM API No. **LOCATION OF RELEASE Unit Letter** Section Township Range Feet from North South Feet from East West County C 14 29N 11W the Line the Line San Juan 984 1398 Latitude <u>3</u>6.73019 Longitude -107.96524 **NATURE OF RELEASE** Type of Release: Condensate Volume of Release ~5 BBLS Volume Recovered: None Source of Release: Tank Over Flow Date and Hour of Occurrence: Date and Hour of Discovery: December 7, 2011 @12:30 December 7, 2011 @12:30 p.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action: On December 7, 2011, five (5) barrels of condensate was release into the unlined containment. Standing liquids was removed and initial remediation of the release was implemented where approximately 1, 077 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD landfarm facility. These activities are documented in the Corrective Action Report - Blanco Storage Vent Tank Release, dated January 6, 2012 (Southwest Geoscience). Due to operational and safety considerations, including third party pipeline right of ways (ROWs), lateral advancement of the December 2011 excavation was terminated prior to the removal of all petroleum hydrocarbon impacted soils. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was built to house the methanol and vent tanks. In 2014, the vent tank was permanently removed from service. In October 2014, Enterprise implemented a Supplemental Site Investigation to further assess subsurface impacts. Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches ranged from two (2) to eight (8) feet in depth. Describe Area Affected and Cleanup Action: In October 2014, Enterprise implemented a Supplemental Site Investigation to further assess subsurface impacts. Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches ranged from two (2) to eight (8) feet in depth. Base on the attached Supplemental Site Investigation report, additional corrective action is required. Enterprise anticipates the scheduling of the supplemental corrective actions in early 2015 based on available contractors. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Printed Name: Jon Fields Approved by Environmental Specialist: Title: Director, Environmental Approval Date: **Expiration Date:** Conditions of Approval: E-mail Address:iefields@eprod.com Attached 12-16.7019 Phone: (713)381-6684 Date:



OIL CONS. DIV DIST. 3

DEC 2 2 2014

### **SUPPLEMENTAL SITE INVESTIGATION REPORT (2014)**

RP # 3R-438-0

Property:

Blanco Storage Vent Tank NW 1/4 Section 14, T29N R11W Bloomfield, San Juan County, New Mexico

> December 11, 2014 Apex Project No. 7030411G018

> > Prepared for:

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

Prepared by:

Kyle Summers, C.P.G.

Branch Manager / Senior Geologist

Elizabeth &caggs, P.G. Senior Program Manager

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Chain of Custody Documentation



### **SUPPLEMENTAL SITE INVESTIGATION REPORT (2014)**

RP # 3R-438-0

Blanco Storage Vent Tank NW ¼ Section 14, T29N R11W Bloomfield, San Juan County, New

Apex Project No. 7030411G018

#### 1.0 INTRODUCTION

### 1.1 Site Description and Background

The Blanco Storage Vent Tank Release Site is located within the Enterprise Field Services, LLC (Enterprise) Blanco Storage facility in the Northwest (NW) ¼ of Section 14, Township 29 North and Range 11 West in Bloomfield, San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private land within the Enterprise Blanco Storage facility. The immediate surroundings are predominantly characterized by petroleum gathering and processing facilities.

On December 7th, 2011, evidence of a release was identified at the Site. An unknown quantity of natural gas condensate (condensate) and water was released into the unlined secondary containment as a result of an overflow from the vent tank. Soil discoloration indicates that the released fluids primarily pooled in the southern half of the containment, with the deepest pooling occurring in the southwest corner of the containment. Soil removal activities were initiated on December 14th, 2011 and resulted in the removal of approximately 1,077 cubic yards of affected soil, which was subsequently transported to the Envirotech, Inc. land farm facility near Hilltop, New Mexico for treatment/disposal. These activities are documented in the *Corrective Action Report – Blanco Storage Vent Tank Release*, dated January 6, 2012 (Southwest Geoscience).

Due to operational and safety considerations, including third party pipeline right of ways (ROWs), lateral advancement of the December 2011 excavation was terminated prior to the removal of all petroleum hydrocarbon impacted soils. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was built to house the methanol and vent tanks. During 2014, the vent tank was permanently taken out of service and removed from the Site.

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 Supplemental Site Investigation (SSI) was to further define the remaining hydrocarbon impact at the Site, which in turn, will help determine the best course of corrective action to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels.



### 1.3 Site Ranking

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 OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action. Apex TITAN, Inc. (Apex) utilized the general site characteristics to determine the appropriate "ranking" for the Site. Ranking criteria and associated scoring are provided in the following table:

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

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

- Numerous wells are documented within a 1.5 mile radius of the site. The closest well, based on information obtained from the New Mexico State Engineer's Office is >1,000 feet to the southeast of the Site at a lower elevation on the valley floor. Groundwater was not encountered during the excavation activities, and the actual depth to groundwater is unknown. Based on data from other environmental studies in the vicinity, groundwater may be present at a depth of < 50 feet below grade surface (bgs) at the Site.</p>
- No water sources were identified in the immediate area.
- Bloomfield Canyon Arroyo, though generally dry, is located approximately 2,450 feet west of the Site. A seasonal irrigation ditch is located approximately 850 feet west of the Site.

Based on a Total Ranking Score of 30, cleanup goals for soil located at the Site include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/Kg for total petroleum hydrocarbon (TPH) gasoline range organics (GRO)/diesel range organics (DRO).

### 1.4 Standard of Care, Limitations & 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.

Enterprise Products Operating LLC Supplemental Site Investigation Repport Blanco Storage Vent Tank Apex Project No. 7030411G018 December 11, 2014



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 Field Services, LLC, 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.

#### 2.0 SITE INVESTIGATION

Enterprise implemented a SSI during October 2014 to further assess the incomplete corrective action excavation performed during December 2011. A backhoe was utilized to perform investigative trenching operations outside of the boundaries of the 2011 excavation.

### 2.1 Investigative Trenching

Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches varied from two (2) to eight (8) feet in depth, depending on the depth at which sandstone was encountered.

The lithology encountered during the completion of SSI activities consisted primarily of sands and silty sands, underlain by a shaley sandstone present at depths ranging from two (2) foot to eight (8) feet bgs. Groundwater was not encountered during the excavation activities.

### 2.2 Soil Sampling Program

Apex's soil sampling program included the collection of 28 investigation samples from the side walls and bottom of the investigative trenches for laboratory analysis. Depending on the final depth of the trench, either two (2) or three (3) samples were collected from each location. The soil sample intervals were selected to obtain the maximum coverage of the trench's vertical profile.

Figure 3 and Figure 4 depict the approximate dimensions of the December 2011 excavation and 2014 SSI trenches, respectively, as well as the analytical sample locations for soils remaining in place. (Appendix A).

The soil samples selected for laboratory analysis were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-

Enterprise Products Operating LLC Supplemental Site Investigation Repport Blanco Storage Vent Tank Apex Project No. 7030411G018 December 11, 2014



custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

### 3.0 LABORATORY ANALYTICAL METHODS

The soil samples selected for laboratory analysis were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results for the investigative soil samples are summarized in Table 1, included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

### 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 OCD rules, specifically NMAC 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex compared the TPH GRO/DRO and BTEX concentrations or laboratory reporting limits (RLs) associated with the soil samples to the OCD *Remediation Action Levels* for a Site ranking of 30.

### **Total Petroleum Hydrocarbons**

Investigative soil samples SR-1 through SR-14, SR-16, SR-18, SR-23 through SR-26, and SR-28 exhibited combined TPH GRO/DRO concentrations ranging from below the laboratory RL to 69 mg/Kg, which are below the OCD's *Remediation Action Level* of 100 mg/Kg.

Investigative soil samples SR-15, SR-17, SR-19 through SR-22, and SR-27 exhibited combined TRP GRO/DRO concentrations ranging from 152 mg/Kg to 3,900 mg/Kg, which exceed the OCD's *Remediation Action Level* of 100 mg/Kg.

#### **Benzene**

Investigative soil samples SR-1 through SR-28 exhibited benzene concentration levels ranging from below laboratory RLs to 2.8 mg/Kg, which are below the OCD's *Remediation Action Level* of 10 mg/Kg.

### **Total BTEX**

Investigative soil samples SR-1 through SR-14, SR-16, SR-17, SR-18, SR-20, SR-22 through SR-26, and SR-28 exhibited total BTEX concentrations ranging from below the laboratory RLs to 21 mg/Kg, which are below the OCD's Remediation Action Level of 50 mg/Kg.

Investigative soil samples SR-15, SR-19, SR-21, and SR-27 exhibited total BTEX concentrations ranging from 161 mg/Kg to 405 mg/Kg, which exceed the OCD's *Remediation Action Level* of 50 mg/Kg.

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The results of soil sample analyses are summarized in Table 1 of Appendix B. Figures 3 and 4 (Appendix A) provide sample locations, and identify the samples that exceeded the OCD Remediation Action Level for the 2011 excavation and the 2014 SSI, respectively.

### 5.0 FINDINGS AND RECOMMENDATIONS

The Blanco Storage Vent Tank Release Site is located within the Enterprise Blanco Storage facility in the NW ¼ of Section 14, Township 29 North and Range 11 West in Bloomfield, San Juan County, New Mexico. The Site is located on private land within the Enterprise Blanco Storage facility. The immediate surroundings are predominantly characterized by petroleum gathering and processing facilities.

On December 7th, 2011, evidence of a release was identified at the Site. An unknown quantity of natural gas condensate (condensate) and water was released into the unlined secondary containment as a result of an overflow from the vent tank. Soil discoloration indicates that the released fluids primarily pooled in the southern half of the containment, with the deepest pooling occurring in the southwest corner of the containment. Soil removal activities were initiated on December 14th, 2011 and resulted in the removal of approximately 1,077 cubic yards of affected soil, which was subsequently transported to the Envirotech, Inc. land farm facility near Hilltop, New Mexico for treatment/disposal.

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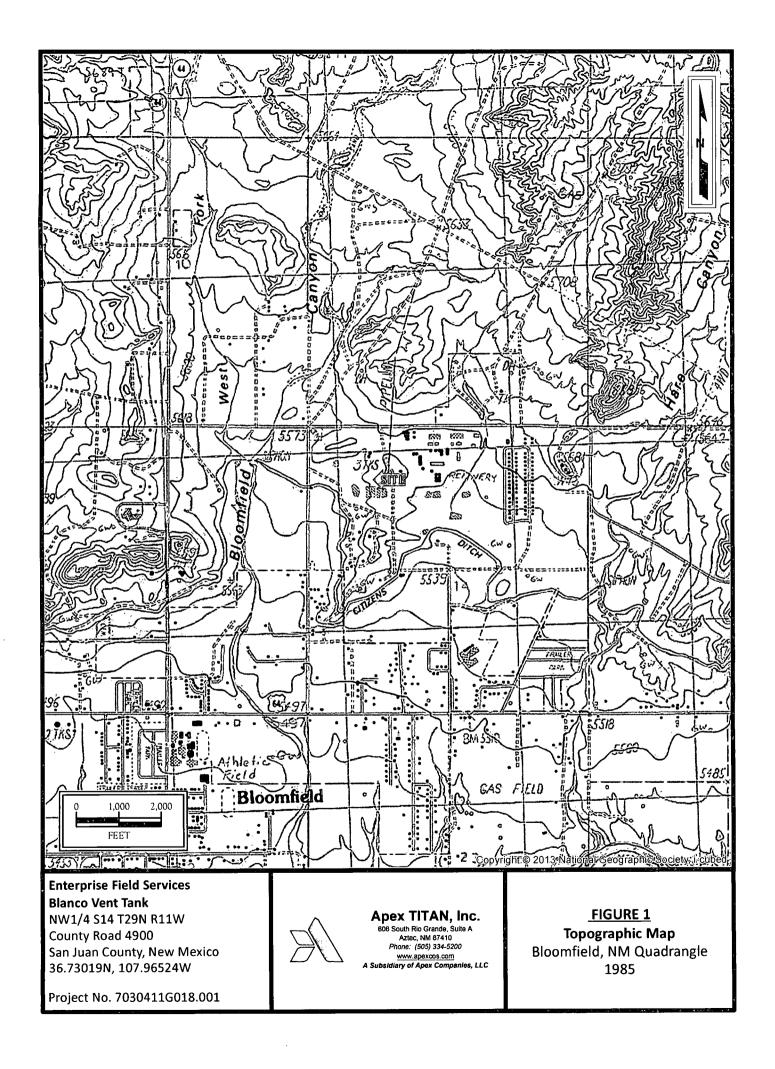
- The primary objective of the SSI was to further define the remaining hydrocarbon impact
  at the Site,, which in turn, will help determine the best course of corrective action to
  reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD
  OCD Remediation Action Levels.
- The lithology encountered during the completion of SSI activities consisted primarily of sands and silty sands, underlain by a shaley sandstone present at depths ranging from two (2) foot to eight (8) feet bgs. Groundwater was not encountered during the excavation activities.
- Analytical data obtained from the SSI indicates affected soils previously identified at the eastern, southeastern, and southern sidewalls of the former excavation are limited in extent.
- Analytical data obtained from the SSI indicates hydrocarbon impact is present west and southwest of the former excavation, exhibiting BTEX and TPH concentrations that exceed the OCD Remediation Action Levels. The extent of this impact is not fully defined.

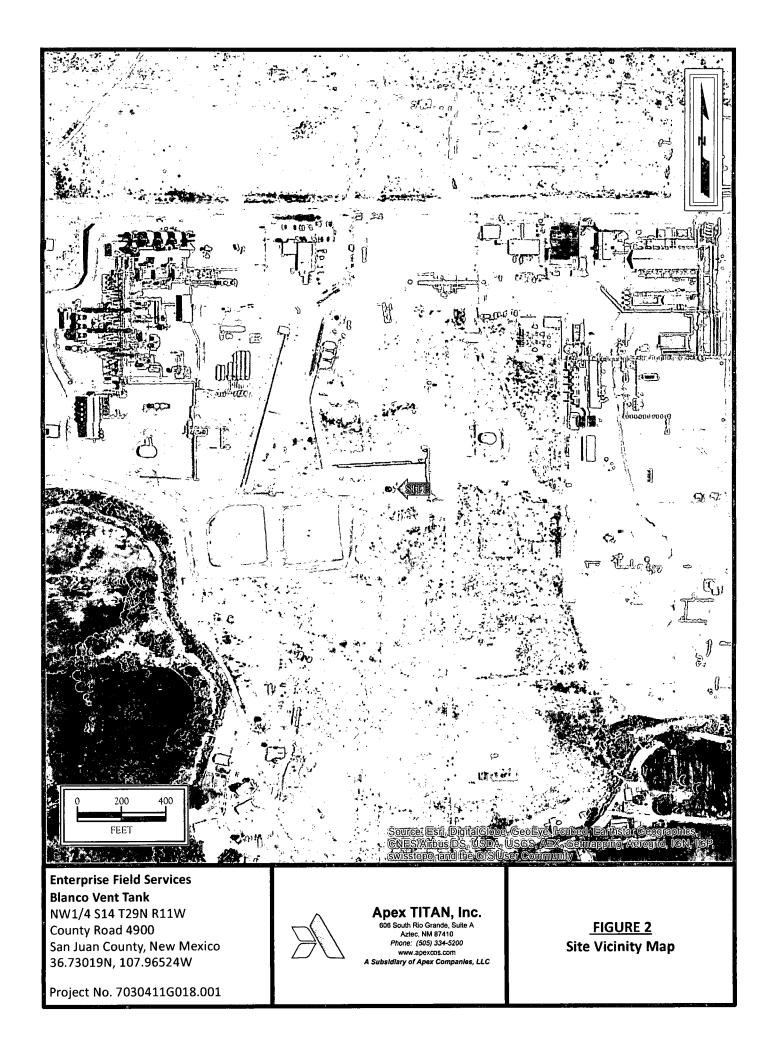
Based on data obtained from the SSI, additional corrective action is necessary at the former release Site. The presence of affected soils to the west (cross-gradient) may indicate a second historic release source.

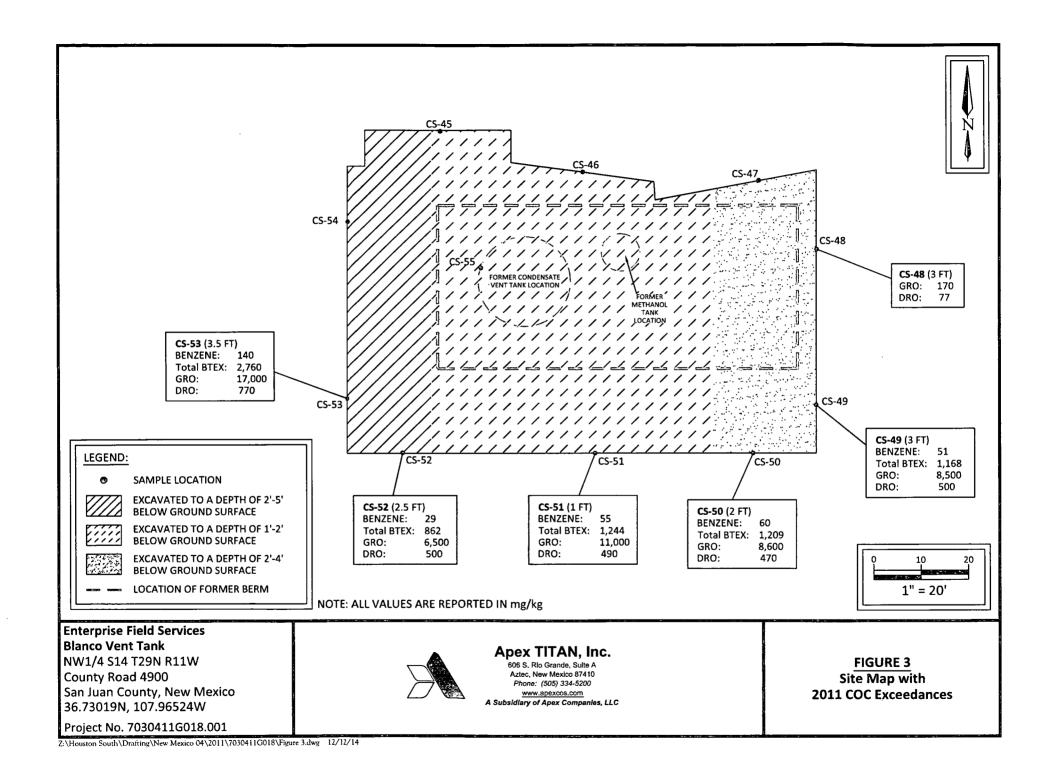


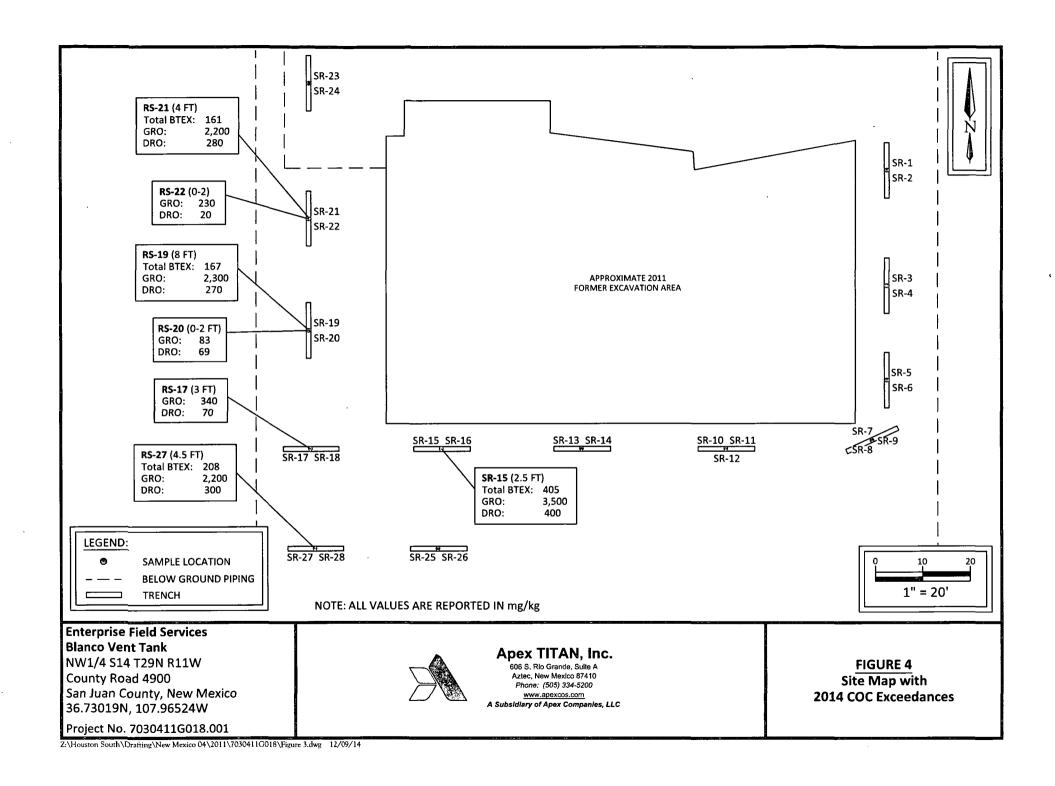
APPENDIX A

Figures











APPENDIX B

Table



### DRAFT TABLE 1 Blanco Storage Vent Tank Release SOIL AVALYTICAL RESULTS

Sample I.D.	Date	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)
	New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level			NE	NE	NE .	50	11	00
		(	Corrective Action	n Sample Result	s for Soils Rema	ining in Place- 2	2011		
CS-45	12/19/2011	2.0	<0.049	<0.049	<0.049	<0.097	<0.25	<4.9	<10
CS-46	12/19/2011	2.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
CS-47	12/19/2011	3.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
CS-48	12/19/2011	3.0	<0.095	3.8	1.4	19	24.2	170	77
CS-49	12/19/2011	3.0	51	450	57	610	1,168	8,500	500
CS-50	12/19/2011	2.0	62	470	57	620	1,209	8,600	470
CS-51	12/19/2011	1.0	55	480	59	650	1,244	11,000	490
CS-52	12/19/2011	2.5	29	300	43	490	862	6,500	500
CS-53	12/19/2011	3.5	140	1,100	120	1,400	2,760	17,000	770
CS-54	12/19/2011	3.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<9.7
CS-55	12/19/2011	3.0	<0.047	<0.047	<0.047	<0.094	<0.24	6.5	11
				SSI Sample	Results - 2014				
SR-1	10/22/2014	3.5	<0.046	<0.046	<0.046	<0.093	ND	<4.6	<10
SR-2	10/22/2014	0 to 3.5	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10
SR-3	10/22/2014	3	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10
SR-4	10/22/2014	0 to 3	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<10
SR-5	10/22/2014	2.25	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<10
SR-6	10/22/2014	0 to 2	<0.046	<0.046	<0.046	<0.092	ND	<4.6	<9.9
SR-7	10/22/2014	1 to 4	<0.047	<0.047	<0.047	<0.093	ND	<4.7	<10
SR-8	10/22/2014	5	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.9
SR-9	10/22/2014	6	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.9
SR-10	10/22/2014	1 to 4	<0.046	<0.046	<0.046	<0.093	ND	<4.6	38
SR-11	10/22/2014	0 to 1	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10
SR-12	10/22/2014	5.	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10



# DRAFT TABLE 1 Blanco Storage Vent Tank Release soil analytical results

Sample I.D.	Date	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)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level		10	NE	NE	NE	50	1	00	
SR-13	10/22/2014	· 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10
SR-14	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10
SR-15	10/22/2014	2.5	2.4	99	24	280	405	3,500	400
SR-16	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	, ND	<4.7	<10
SR-17	10/22/2014	3	<0.24	1.7	0.83	18	21	340	70
SR-18	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.8
SR-19	10/22/2014	8	1.9	37	8.2	120	167	2,300	270
SR-20	10/22/2014	0 to 2	<0.047	0.25	0.11	1.9	2.3	83	69
SR-21	10/22/2014	4	2.7	33	5.6	120	161	2,200	280
SR-22	10/22/2014	0 to 2	<0.12	0.83	0.41	11	12	230	20
SR-23	10/22/2014	3	<0.048	<0.048	<0.048	<0.095	ND	<4.8	11
SR-24	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<9.9
SR-25	10/22/2014	4	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10
SR-26	10/22/2014	0 to 2	<0.050	<0.050	<0.050	<0.099	ND	<5.0	<10
SR-27	10/22/2014	4.5	2.8	35	9.8	160	208	2,200	300
SR-28	10/22/2014	0 to 3	<0.046	0.065	<0.046	0.89	0.96	17	52

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

NE = Not Established

ND=Not Detected above the Laboratory Reporting Limits



### **APPENDIX C**

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

OrderNo.: 1410B12

October 30, 2014

**Kyle Summers** 

APEX AZTEC

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX (505) 334-5204

RE: Blanco Vent Tank

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/23/2014 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

### Lab Order 1410B12

Date Reported: 10/30/2014

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SR-1

**Project:** Blanco Vent Tank

**Collection Date:** 10/22/2014 9:30:00 AM

**Lab ID:** 1410B12-001

**CLIENT:** APEX AZTEC

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:13:53 Pi	M 16062
Surr: DNOP	92.6	63.5-128	%REC	1	10/24/2014 6:13:53 Pt	M 16062
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 3:34:11 A	M 16069
Surr: BFB	100	80-120	%REC	1	10/26/2014 3:34:11 A	M 16069
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 A	M 16069
Toluene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 A	M 16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 A	M 16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 3:34:11 A	M 16069
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	10/26/2014 3:34:11 A	M 16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-2

Project:

Blanco Vent Tank

Collection Date: 10/22/2014 9:35:00 AM

Lab ID:

1410B12-002

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:35:59 PN	1 16062
Surr: DNOP	90.0	63.5-128	%REC	1	10/24/2014 6:35:59 PN	16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 1:06:35 PM	16069
Surr: BFB	88.7	80-120	%REC	1	10/26/2014 1:06:35 PM	/ 16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 PN	1 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 PM	1 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 PM	1 16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 1:06:35 PN	1 16069
Surr: 4-Bromofluorobenzene	88.4	80-120	%REC	1	10/26/2014 1:06:35 PM	1 16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-3

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:40:00 AM

**Lab ID:** 1410B12-003

Matrix: SOIL Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:58:08 PM	16062
Surr: DNOP	102	63.5-128	%REC	1	10/24/2014 6:58:08 PM	16062
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Surr: BFB	90.3	80-120	%REC	1	10/26/2014 1:35:07 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	10/26/2014 1:35:07 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-4

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:45:00 AM

**Lab ID:** 1410B12-004

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 7:20:12 PM	16062
Surr: DNOP	89.8	63.5-128	%REC	1	10/24/2014 7:20:12 PM	16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/26/2014 2:03:45 PM	16069
Surr: BFB	90.6	80-120	%REC	1	10/26/2014 2:03:45 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 PM	16069
Toluene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 PM	16069
Ethylbenzene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 PM	16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 2:03:45 PM	16069
Surr: 4-Bromofluorobenzene	91.5	80-120	%REC	1	10/26/2014 2:03:45 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-5

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:55:00 AM

**Lab ID:** 1410B12-005

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 7:42:15 PI	vi 16062
Surr: DNOP	90.7	63.5-128	%REC	1	10/24/2014 7:42:15 PI	M 16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/26/2014 2:32:23 PI	vi 16069
Surr: BFB	98.4	80-120	%REC	1	10/26/2014 2:32:23 Pf	vi 16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PI	vi 16069
Toluene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PI	M 16069
Ethylbenzene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PI	И 16069
Xylenes, Total	ND	0.096	mg/Kg	1	10/26/2014 2:32:23 Pf	vi 16069
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	10/26/2014 2:32:23 PI	M 16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/30/2014

CLIENT: APEX AZTEC

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:00:00 AM

Client Sample ID: SR-6

**Lab ID:** 1410B12-006

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	·1	10/24/2014 8:04:05 PM	1 16062
Surr: DNOP	98.6	63.5-128	%REC	1	10/24/2014 8:04:05 PM	1 16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Surr: BFB	91.5	80-120	%REC	1	10/26/2014 3:01:00 PM	1 16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Toluene	ND .	0.046	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Xylenes, Total	ND	0.092	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Surr: 4-Bromofluorobenzene	91.3	80-120	%REC	1	10/26/2014 3:01:00 PM	1 16069

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SR-7

 Project:
 Blanco Vent Tank
 Collection Date: 10/22/2014 10:05:00 AM

 Lab ID:
 1410B12-007
 Matrix: SOIL
 Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			-	Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 8:26:03 PM	16062
Surr: DNOP	106	63.5-128	%REC	1	10/24/2014 8:26:03 PM	16062
<b>EPA METHOD 8015D: GASOLINE RAI</b>	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Surr: BFB	89.7	80-120	%REC	1	10/26/2014 3:29:40 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Surr: 4-Bromofluorobenzene	89.9	80-120	%REC	1	10/26/2014 3:29:40 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-8

Project:

Blanco Vent Tank

Collection Date: 10/22/2014 10:15:00 AM

Lab ID:

1410B12-008

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 8:47:48 PM	16062
Surr: DNOP	91.6	63.5-128	%REC	1	10/24/2014 8:47:48 PM	16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 3:58:16 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	10/26/2014 3:58:16 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-9

**Project:** Blanco Vent Tank

**Collection Date:** 10/22/2014 10:20:00 AM **Received Date:** 10/23/2014 7:30:00 AM

**Lab ID:** 1410B12-009 **Matrix:** SOIL

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 9:09:37 PM	16062
Surr: DNOP	87.1	63.5-128	%REC	1	10/24/2014 9:09:37 PM	16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 4:26:47 PM	16069
Surr: BFB	89.1	80-120	%REC	1	10/26/2014 4:26:47 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 PM	16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 4:26:47 PM	16069
Surr: 4-Bromofluorobenzene	89.6	80-120	%REC	1	10/26/2014 4:26:47 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Client Sample ID:** SR-10

Project: Bl

Blanco Vent Tank

**Collection Date:** 10/22/2014 10:25:00 AM

Lab ID: 1410I

1410B12-010

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS		- <del>-</del>		Analys	: BCN
Diesel Range Organics (DRO)	38	10	mg/Kg	1	10/24/2014 9:31:16 PM	1 16062
Surr: DNOP	88.4	63.5-128	%REC	1	10/24/2014 9:31:16 PM	1 16062
EPA METHOD 8015D: GASOLINE RAN	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 4:55:18 PM	1 16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 4:55:18 PM	1 16069
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	1 16069
Toluene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	1 16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	1 16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 4:55:18 PN	1 16069
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	10/26/2014 4:55:18 PM	1 16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Project: Blanco Vent Tank

**Lab ID:** 1410B12-011

Client Sample ID: SR-11

Collection Date: 10/22/2014 10:30:00 AM

**Received Date:** 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 2:55:06 AM	16063
Surr: DNOP	93.4	63.5-128	%REC	1	10/25/2014 2:55:06 AM	16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Surr: BFB	90.3	80-120	%REC	1	10/26/2014 5:23:56 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Surr: 4-Bromofluorobenzene	91.3	80-120	%REC	1	10/26/2014 5:23:56 PM	16069

Matrix: SOIL

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SR-12

Project: Blanco Vent Tank

Collection Date: 10/22/2014 10:40:00 AM Received Date: 10/23/2014 7:30:00 AM

**Lab ID:** 1410B12-012

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS		•	_	Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 3:59:15 A	M 16063
Surr: DNOP	97.9	63.5-128	%REC	1	10/25/2014 3:59:15 A	M 16063
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 9:12:57 P	M 16069
Surr: BFB	89.0	80-120	%REC	1	10/26/2014 9:12:57 P	M 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 P	M 16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 P	M 16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 P	M 16069
Xylenes, Total	ND	0.099	mg/Kg	1	10/26/2014 9:12:57 P	M 16069
Surr: 4-Bromofluorobenzene	89.5	80-120	%REC	1	10/26/2014 9:12:57 P	M 16069

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

### 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.
  - Sample pH greater than 2.

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RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-13

Project:

Blanco Vent Tank

Collection Date: 10/22/2014 10:45:00 AM

Lab ID: 14

1410B12-013

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 4:20:42 AM	16063
Surr: DNOP	95.6	63.5-128	%REC	1	10/25/2014 4:20:42 AM	16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 9:41:29 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Xylenes, Total	ND	0.094	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Surr: 4-Bromofluorobenzene	91.2	80-120	%REC	1	10/26/2014 9:41:29 PM	16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SR-14

 Project:
 Blanco Vent Tank
 Collection Date: 10/22/2014 10:50:00 AM

 Lab ID:
 1410B12-014
 Matrix: SOIL
 Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 4:42:03 A	M 16063
Surr: DNOP	98.2	63.5-128	%REC	1	10/25/2014 4:42:03 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 10:09:59	PM 16069
Surr: BFB	89.8	80-120	%REC	1	10/26/2014 10:09:59	PM 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 10:09:59	PM 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 10:09:59	PM 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 10:09:59	PM 16069
Xylenes, Total	ND	0.094	mg/Kg	1	10/26/2014 10:09:59	PM 16069
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	10/26/2014 10:09:59	PM 16069

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

### 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 Page 14 of 34
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-15

Project:

Blanco Vent Tank

Collection Date: 10/22/2014 10:55:00 AM

Lab ID:

1410B12-015

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	400	10		mg/Kg	1	10/25/2014 5:03:45 A	M 16063
Surr: DNOP	98.7	63.5-128		%REC	1	10/25/2014 5:03:45 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE					Analy	st: <b>NSB</b>
Gasoline Range Organics (GRO)	3500	240		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Surr: BFB	209	80-120	s	%REC	, 50	10/26/2014 10:38:35	PM 16069
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	2.4	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Toluene	99	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Ethylbenzene	24	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Xylenes, Total	280	4.7		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Surr: 4-Bromofluorobenzene	109	80-120		%REC	50	10/26/2014 10:38:35	PM 16069

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

### 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
  - Page 15 of 34
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Project:

Lab ID:

Blanco Vent Tank

1410B12-016 Matrix: SOIL Client Sample ID: SR-16

Collection Date: 10/22/2014 11:00:00 AM Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 5:25:09 A	M 16063
Surr: DNOP	106	63.5-128	%REC	1	10/25/2014 5:25:09 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Surr: BFB	90.9	80-120	%REC	1	10/26/2014 11:07:12	PM 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Xylenes, Total	ND	0.094	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Surr: 4-Bromofluorobenzene	92.0	80-120	%REC	1	10/26/2014 11:07:12	PM 16069

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

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- Reporting Detection Limit

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-17

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:05:00 AM

**Lab ID:** 1410B12-017

Matrix: SOIL Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS			-		Analy	/st: <b>BCN</b>
Diesel Range Organics (DRO)	70	9.8		mg/Kg	1	10/25/2014 5:46:33	AM 16063
Surr: DNOP	101	63.5-128		%REC	1	10/25/2014 5:46:33	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE					Analy	/st: NSB
Gasoline Range Organics (GRO)	340	49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Surr: BFB	175	80-120	s	%REC	10	10/26/2014 11:35:46	PM 16069
EPA METHOD 8021B: VOLATILES						Analy	/st: NSB
Benzene	ND	0.24		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Toluene	1.7	0.49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Ethylbenzene	0.83	0.49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Xylenes, Total	18	0.97		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Surr: 4-Bromofluorobenzene	102	80-120		%REC	10	10/26/2014 11:35:46	PM 16069

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

### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Analytical Report Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-18

Project: Blan

Blanco Vent Tank

Collection Date: 10/22/2014 11:15:00 AM

**Lab ID:** 1410B12-018

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analy	/st: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/25/2014 6:07:50	AM 16063
Surr: DNOP	99.7	63.5-128	%REC	1	10/25/2014 6:07:50	AM 16063
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	/st: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Surr: BFB	90.5	80-120	%REC	1	10/27/2014 12:04:25	AM 16069
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Toluene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	10/27/2014 12:04:25	AM 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Analytical Report Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC Client Sample ID: SR-19

 Project:
 Blanco Vent Tank
 Collection Date: 10/22/2014 11:20:00 AM

 Lab ID:
 1410B12-019
 Matrix: SOIL
 Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	st: BCN
Diesel Range Organics (DRO)	270	10		mg/Kg	1	10/25/2014 6:29:16 A	M 16063
Surr: DNOP	105	63.5-128		%REC	1	10/25/2014 6:29:16 A	M 16063
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	st: NSB
Gasoline Range Organics (GRO)	2300	240		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Surr: BFB	183	80-120	S	%REC	50	10/27/2014 12:32:58	AM 16069
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	1.9	1.2		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Toluene	37	2.4		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Ethylbenzene	8.2	2.4		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Xylenes, Total	120	4.7		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Surr: 4-Bromofluorobenzene	104	80-120		%REC	50	10/27/2014 12:32:58	AM 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

**Client Sample ID: SR-20** 

Project: I

Blanco Vent Tank

Collection Date: 10/22/2014 11:25:00 AM

Lab ID: 1410B12-020

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	69	10		mg/Kg	1	10/25/2014 6:50:37 AM	16063
Surr: DNOP	104	63.5-128		%REC	1	10/25/2014 6:50:37 AM	16063
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	83	4.7		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Surr: BFB	503	80-120	S	%REC	1	10/27/2014 1:01:34 AM	16069
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Toluene	0.25	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Ethylbenzene	0.11	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Xylenes, Total	1.9	0.095		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	10/27/2014 1:01:34 AM	16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/30/2014

CLIENT: APEX AZTEC

Project:

Lab ID:

Blanco Vent Tank

1410B12-021

Client Sample ID: SR-21

Collection Date: 10/22/2014 11:35:00 AM Received Date: 10/23/2014 7:30:00 AM

**Analyses** Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 280 9.9 mg/Kg 1 10/25/2014 7:11:56 AM 16063 Surr: DNOP 104 %REC 10/25/2014 7:11:56 AM 16063 63.5-128 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 2200 240 mg/Kg 50 10/27/2014 1:30:02 AM 16070 Surr: BFB 153 80-120 S %REC 10/27/2014 1:30:02 AM 16070 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 2.7 2.4 10/27/2014 1:30:02 AM 16070 mg/Kg Toluene 33 2.4 mg/Kg 10/27/2014 1:30:02 AM 16070 Ethylbenzene 5.6 2.4 mg/Kg 10/27/2014 1:30:02 AM 16070 Xylenes, Total 120 4.9 mg/Kg 50 10/27/2014 1:30:02 AM 16070 Surr: 4-Bromofluorobenzene 105 %REC 10/27/2014 1:30:02 AM 16070 80-120

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Project: Blanco Vent Tank

**Lab ID:** 1410B12-022

Matrix: SOIL

**Collection Date:** 10/22/2014 11:40:00 AM **Received Date:** 10/23/2014 7:30:00 AM

**Client Sample ID: SR-22** 

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	20	10	mg/Kg	1	10/25/2014 7:33:09 A	AM 16063
Surr: DNOP	98.7	63.5-128	%REC	1	10/25/2014 7:33:09 A	AM 16063
EPA METHOD 8015D: GASOLINE R.	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	230	24	mg/Kg	5	10/27/2014 10:37:14	AM 16070
Surr: BFB	193	80-120	S %REC	5	10/27/2014 10:37:14	AM 16070
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.12	mg/Kg	5	10/27/2014 10:37:14	AM 16070
Toluene	0.83	0.24	mg/Kg	5	10/27/2014 10:37:14	AM 16070
Ethylbenzene	0.41	0.24	mg/Kg	5	10/27/2014 10:37:14	AM 16070
Xylenes, Total	11	0.49	mg/Kg	5	10/27/2014 10:37:14	AM 16070
Surr: 4-Bromofluorobenzene	104	80-120	%REC	5	10/27/2014 10:37:14	AM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/30/2014

CLIENT: APEX AZTEC Client Sample ID: SR-23

 Project:
 Blanco Vent Tank
 Collection Date: 10/22/2014 11:50:00 AM

 Lab ID:
 1410B12-023
 Matrix: SOIL
 Received Date: 10/23/2014 7:30:00 AM

Analyses	Result		RL Qual Units		Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			-	Analy	st: BCN	
Diesel Range Organics (DRO)	11	10	mg/Kg	1	10/25/2014 7:54:31 A	M 16063	
Surr: DNOP	97.6	63.5-128	%REC	1	10/25/2014 7:54:31 A	M 16063	
EPA METHOD 8015D: GASOLINE RAI	NGE				Analy	st: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/27/2014 11:05:50	AM 16070	
Surr: BFB	107	80-120	%REC	1	10/27/2014 11:05:50	AM 16070	
EPA METHOD 8021B: VOLATILES					Analy	st: NSB	
Benzene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070	
Toluene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070	
Ethylbenzene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070	
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 11:05:50	AM 16070	
Surr: 4-Bromofluorobenzene	93.2	80-120	%REC	1	10/27/2014 11:05:50	AM 16070	

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

#### 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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#### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Project:

Lab ID:

Blanco Vent Tank

1410B12-024

Matrix: SOIL

Client Sample ID: SR-24

**Collection Date:** 10/22/2014 11:55:00 AM **Received Date:** 10/23/2014 7:30:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) 9.9 mg/Kg 10/25/2014 8:15:46 AM 16063 1 Surr: DNOP 116 %REC 63.5-128 10/25/2014 8:15:46 AM 16063 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 10/27/2014 11:34:28 AM 16070 Surr: BFB 90.0 80-120 %REC 10/27/2014 11:34:28 AM 16070 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.047 10/27/2014 11:34:28 AM 16070 mg/Kg 1 Toluene ND 0.047 mg/Kg 10/27/2014 11:34:28 AM 16070 Ethylbenzene ND 0.047 mg/Kg 1 10/27/2014 11:34:28 AM 16070 Xylenes, Total ND 0.094 mg/Kg 10/27/2014 11:34:28 AM 16070 Surr: 4-Bromofluorobenzene 92.3 80-120 %REC 10/27/2014 11:34:28 AM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Analytical Report Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-25

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 12:05:00 PM

**Lab ID:** 1410B12-025

Matrix: SOIL Reco

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qual Units		DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 8:37:06	AM 16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 8:37:06	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Surr: BFB	89.3	80-120	%REC	. 1	10/27/2014 12:03:11	PM 16070
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Toluene	ND	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Ethylbenzene	ND	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	10/27/2014 12:03:11	PM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-26

Project:

Blanco Vent Tank

Collection Date: 10/22/2014 12:15:00 PM

Lab ID: 14

1410B12-026

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS	· - · · - ·			Analy	/st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 8:58:21 /	AM 16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 8:58:21 /	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Surr: BFB	89.1	80-120	%REC	1	10/27/2014 12:31:48	PM 16070
EPA METHOD 8021B: VOLATILES					Analy	yst: NSB
Benzene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Toluene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Ethylbenzene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Xylenes, Total	ND	0.099	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Surr: 4-Bromofluorobenzene	89.8	80-120	%REC	1	10/27/2014 12:31:48	PM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Project: Blanco Vent Tank

Lab ID: 1410B12-027 Client Sample ID: SR-27

Collection Date: 10/22/2014 12:20:00 PM

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	: BCN
Diesel Range Organics (DRO)	300	9.9	mg/Kg	1	10/25/2014 9:19:45 AM	16063
Surr: DNOP	118	63.5-128	%REC	1	10/25/2014 9:19:45 AM	16063
EPA METHOD 8015D: GASOLINE RA		Analyst	: NSB			
Gasoline Range Organics (GRO)	2200	240	mg/Kg	50	10/27/2014 1:00:23 PM	16070
Surr: BFB	155	80-120	S %REC	50	10/27/2014 1:00:23 PM	16070
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	2.8	2.4	mg/Kg	50	10/27/2014 1:00:23 PM	16070
Toluene	35	2.4	mg/Kg	50	10/27/2014 1:00:23 PM	16070
Ethylbenzene	9.8	2.4	mg/Kg	50	10/27/2014 1:00:23 PM	16070
Xylenes, Total	160	4.7	mg/Kg	50	10/27/2014 1:00:23 PM	16070
Surr: 4-Bromofluorobenzene	104	80-120	%REC	50	10/27/2014 1:00:23 PM	16070

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- o RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 27 of 34

- Sample pH greater than 2.
- RLReporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-28

Project: Blanco Vent Tank Collection Date: 10/22/2014 12:25:00 PM

Lab ID: 1410B12-028

Received Date: 10/23/2014 7:30:00 AM

Analyses	lyses Result		al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS	-		-	Analyst	BCN
Diesel Range Organics (DRO)	52	10	mg/Kg	1	10/25/2014 9:41:01 AM	16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 9:41:01 AM	16063
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	17	4.6	mg/Kg	1	10/27/2014 1:29:05 PM	16070
Surr: BFB	110	80-120	%REC	1	10/27/2014 1:29:05 PM	16070
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.046	mg/Kg	1	10/27/2014 1:29:05 PM	16070
Toluene	0.065	0.046	mg/Kg	1	10/27/2014 1:29:05 PM	16070
Ethylbenzene	ND	0.046	mg/Kg	1	10/27/2014 1:29:05 PM	16070
Xylenes, Total	0.89	0.091	mg/Kg	1	10/27/2014 1:29:05 PM	16070
Surr: 4-Bromofluorobenzene	94.8	80-120	%REC	1	10/27/2014 1:29:05 PM	16070

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- Page 28 of 34
- RLReporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

**Client:** 

APEX AZTEC

Project: B	lanco Vent Tank									
Sample ID MB-16062	: SampTyp	e: MBL	K	Test	Code: <b>EF</b>	PA Method	8015D: Diese	el Range C	)rganics	
Client ID: PBS	Batch II	D: <b>1606</b> :	2	R	RunNo: 22124					
Prep Date: 10/23/20	14 Analysis Dat	e: <b>10/2</b>	4/2014	S	eqNo: 6	52213	Units: mg/K	ζg		
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR Surr: DNOP	0) ND 8.6	10	10.00		86.3	63.5	128	_		
Sample ID LCS-1606	2 SampTyp	e: LCS		Test	:Code: EF	A Method	8015D: Dies	el Range C	rganics	
Client ID: LCSS	Batch I	D: <b>1606</b>	2	R	unNo: 2	2124				
Prep Date: 10/23/20	14 Analysis Dat	e: <b>10/2</b>	4/2014	S	eqNo: 6	52214	Units: mg/K	(g		
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR Surr: DNOP	0) 57 4.5	10	50.00 5.000	0	113 89.6	68.6 63.5	130 128			
Sample ID MB-16063	SampTyp	e: MBL	K	Test	Code: EF	A Method	8015D: Diese	el Range C	rganics	
Client ID: PBS	Batch I	D: <b>1606</b>	3	R	unNo: 2	2124				
Prep Date: 10/23/20	14 Analysis Dat	e: <b>10/2</b>	5/2014	S	eqNo: 6	52355	Units: mg/M	ζg		
Analyte	Result	PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR Surr: DNOP	O) ND 8.8	10	10.00		88.3	63.5	128	_		
Sample ID LCS-1606	3 SampTyr	e: LCS		Tes	Code: Ef	PA Method	8015D: Dies	el Range C	rganics	_
Client ID: LCSS	Batch I	D: <b>1606</b>	3	R	tunNo: 2	2124				
Prep Date: 10/23/20	14 Analysis Dat	e: <b>10/2</b>	5/2014	S	eqNo: 6	52356	Units: mg/k	ζg		
Analyte		PQL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DR Surr: DNOP	O) 53 4.3	10	50.00 5.000	0	107 85.4	68.6 63.5	130 128	_		
Sample ID 1410B12-	011AMSD SampTyp	e: MSD		Tes	tCode: El	PA Method	8015D: Dies	el Range C	)rganics	
Client ID: SR-11	Batch I	D: <b>1606</b>	3	F	RunNo: 2	2124				
Prep Date: 10/23/20	14 Analysis Dat	te: 10/2	5/2014	S	SeqNo: 6	52358	Units: mg/h	<b>(</b> g		
· '		501 6	SDK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result	PQL S	ork value							
Analyte Diesel Range Organics (DR Surr: DNOP		10 S	50.30 5.030	0	120 115	40.1 63.5	152 128	13.9 0	32.1 0	
Diesel Range Organics (DR	O) 60 5.8	10	50.30 5.030	0	120 115	63.5		13.9 0	0	
Diesel Range Organics (DR Surr: DNOP	0) 60 5.8 8 SampTy <sub>1</sub>	10	50.30 5.030	0 Tes	120 115	63.5 PA Method	128	13.9 0	0	
Diesel Range Organics (DR Surr: DNOP Sample ID MB-1609:	0) 60 5.8 3 SampTyr Batch I	10 De: <b>MBL</b> D: <b>1609</b>	50.30 5.030 <b>K</b>	0 Tes F	120 115 tCode: <b>El</b>	63.5 PA Method 2152	128	13.9 0 el Range (	0	

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit o
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

Page 29 of 34

- Sample pH greater than 2.
- Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID MB-16093

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID:

PBS

Batch ID: 16093

RunNo: 22152

Prep Date: 10/27/2014

Sample ID LCS-16093

Analysis Date: 10/27/2014

SeqNo: 652710

128

**PQL** 

85.7

Units: %REC

Analyte

Result

SPK value SPK Ref Val %REC

10.00

LowLimit

63.5

HighLimit

**RPDLimit** 

Qual

Surr: DNOP

SampType: LCS

8.6

TestCode: EPA Method 8015D: Diesel Range Organics

%RPD

Client ID:

LCSS

Batch ID: 16093

RunNo: 22152

128

Prep Date:

10/27/2014

Analysis Date: 10/27/2014

SeqNo: 652711

Units: %REC

**RPDLimit** 

Qual

Analyte Surr: DNOP

5.0

Result

SPK value SPK Ref Val 5.000

%REC 100

LowLimit

%RPD HighLimit

Sample ID 1410B12-011AMS

SampType: MS

TestCode: EPA Method 8015D: Diesel Range Organics

%RPD

Client ID: SR-11

Batch ID: 16063

**PQL** 

RunNo: 22152

Units: mg/Kg

Prep Date: 10/23/2014 Analyte

Analysis Date: 10/27/2014 PQL

10

SeqNo: 652712 %REC

HighLimit

**RPDLimit** Qual

Diesel Range Organics (DRO) Surr: DNOP

52

Result

50.35

104 123

LowLimit

40.1 152

6.2

5.035

SPK value SPK Ref Val

63.5

128

### **Qualifiers:**

S

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Η Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.

В

RLReporting Detection Limit Page 30 of 34

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

**Client:** 

APEX AZTEC

Project:	Blanco V	ent Tank									
Sample ID	MB-16069	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: <b>16</b>	069	F	RunNo: 22	2140				
Prep Date:	10/23/2014	Analysis Da	ate: 10	0/25/2014	8	SeqNo: 6	51578	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 970	5.0	1000		96.5	80	120			
Sample ID	LCS-16069	SampTy	/pe: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch	ID: <b>16</b>	069	F	RunNo: 2	2140				
Prep Date:	10/23/2014	Analysis Da	ate: 10	0/25/2014	9	SeqNo: 6	51579	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	ge Organics (GRO)	28	5.0	25.00	0	110	65.8	139			
Surr: BFB		1000		1000		105	80	120			<del></del>
Sample ID	1410B12-002AMS	SampTy	/pe: <b>M</b> \$	5	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	SR-2	Batch	ID: <b>16</b>	069	F	RunNo: 2	2140				
Prep Date:	10/23/2014	Analysis Da	ate: 10	0/26/2014	5	SeqNo: 6	51581	Units: mg/k	ζg		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	ge Organics (GRO)	28	4.7	23.70	0	119	71.8	132			
Surr: BFB		980		947.9	<u> </u>	104	80	120			
Sample ID	1410B12-002AMS	D SampTy	ype: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	SR-2	Batch	ID: <b>16</b>	069	F	RunNo: 2:	2140				
Prep Date:	10/23/2014	Analysis Da	ate: 1	0/26/2014	\$	SeqNo: 6	51582	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	28	4.7	23.72	0	118	71.8	132	0.715	20	
Surr: BFB		1000		948.8		106	80	120	0	0	
Sample ID	MB-16070	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 16	070	F	RunNo: 2	2145				
Prep Date:	10/23/2014	Analysis D	ate: 1	0/26/2014	\$	SeqNo: 6	51985	Units: mg/h	<b>(</b> g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 890	5.0	1000		89.1	80	120			
Sample ID	LCS-16070	SampT	ype: <b>L</b> (	cs	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Sample ID Client ID:		-	ype: <b>L0</b> ID: <b>16</b>			stCode: El RunNo: 2		8015D: Gaso	oline Rang	e	

#### Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level.

PQL

Result

- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В

HighLimit

%RPD

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

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**RPDLimit** 

Qual

Sample pH greater than 2.

SPK value SPK Ref Val %REC LowLimit

Reporting Detection Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID LCS-16070

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **LCSS**  Batch ID: 16070

RunNo: 22145

Prep Date: 10/23/2014

%REC

Analyte

Analysis Date: 10/26/2014 **PQL** 

5.0

SeqNo: 651986

Units: mg/Kg

HighLimit

RPDLimit	Qual	
I O D C III II C	G G G G I	

Gasoline Range Organics (GRO)	
Surr: BFB	

28	
970	

25.00 1000

SPK value SPK Ref Val

113 96.6

80

65.8

LowLimit

139 120 %RPD

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit O
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID MB-16069	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 16	069	F	RunNo: 2	2140				
Prep Date: 10/23/2014	Analysis D	ate: 10	0/25/2014	S	SeqNo: 6	51605	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050		<u>-</u>						
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID LCS-16069	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: <b>16</b>	069	F	RunNo: 2	2140				
Prep Date: 10/23/2014	Analysis D	Date: 10	)/25/2014	5	SeqNo: 6	51606	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	92.2	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120		•	
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID 1410B12-001AM	S Samp	Гуре: М\$	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		·
Client ID: SR-1	Batc	h ID: 16	069	F	RunNo: 2	2140				
Prep Date: 10/23/2014	Analysis [	Date: 10	0/25/2014	8	SeqNo: 6	51608	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.046	0.9242	0	92.8	77.4	142			
Toluene	0.87	0.046	0.9242	0	93.9	77	132			
Ethylbenzene	0.92	0.046	0.9242	0	100	77.6	134			
Xylenes, Total	2.7	0.092	2.773	0	99.1	77.4	132			
Surr: 4-Bromofluorobenzene	0.95		0.9242		103	80	120			

Sample ID 1410B12-001AM	SD SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SR-1	Batch	ID: <b>16</b> 0	069	F	RunNo: 2	2140				
Prep Date: 10/23/2014	Analysis D	ate: 10	/25/2014	S	SeqNo: 6	51609	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.046	0.9251	0	97.1	77.4	142	4.58	20	
Toluene	0.91	0.046	0.9251	0	98.2	77	132	4.62	20	
Ethylbenzene	0.96	0.046	0.9251	0	103	77.6	134	3.31	20	
Xylenes, Total	2.8	0.093	2.775	0	102	77.4	132	3.12	20	
Surr: 4-Bromofluorobenzene	0.98		0.9251		106	80	120	0	0	

#### 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.
- RL Reporting Detection Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID MB-16070	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 16	070	F	RunNo: 2	2145				
Prep Date: 10/23/2014	Analysis [	Date: 10	0/26/2014	\$	SeqNo: 6	52011	Units: mg/F	<b>(</b> g		
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	0.91		1.000		91.1	80	120			
Sample ID 1 CC 16070	Comp	Type: 1 C	·c	Too	+Code: E	0.4.14	9024D. Vala	4:1		

Sample ID LCS-16070	Sampl	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>16</b>	070	F	RunNo: 2	2145				
Prep Date: 10/23/2014	Analysis [	Date: 10	0/26/2014	S	SeqNo: 6	52012	Units: mg/h	(g		
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	97.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	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.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

### Sample Log-In Check List

Client Name: **APEX AZTEC** Work Order Number: 1410B12 RcptNo: 1 Received by/date: ann Il-Logged By: 10/23/2014 7:30:00 AM **Anne Thorne** an Ilm 10/23/2014 Completed By: Anne Thorne 10/23/14 Reviewed By: Chain of Custody No 🗆 Not Present Yes 1 Custody seals intact on sample bottles? Yes 🗹 No. 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗀 NA 🗆 Yes 🗹 4. Was an attempt made to cool the samples? NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 No 🗌 Yes V 6. Sample(s) in proper container(s)? Yes 🔽 7. Sufficient sample volume for indicated test(s)? No 🗀 8. Are samples (except VOA and ONG) properly preserved? Yes No 🗹 NA 🗌 9. Was preservative added to bottles? Yes 🗌 No 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes 🗆 No 🔽 11. Were any sample containers received broken? # of preserved bottles checked No 🗀 for pH: 12. Does paperwork match bottle labels? Yes 🗹 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗹 No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗆 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🗹 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 NA 🗹 No 🗆 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By 2.0 Good Yes

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### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 JAN 02 2015 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 □ Updated Name of Company: Enterprise Field Services LLC Contact: Thomas Long Telephone No. 505-599-2286 Address: 614 Reilly Ave, Farmington, NM 87401 Facility Name: Blanco Vent Tank Release RP#3R-438-0 Facility Type: Natural Gas Compressing Facility Surface Owner: Private Mineral Owner:BLM API No. **LOCATION OF RELEASE** Unit Letter Section Township Feet from North South Feet from East West Range County C 29N 11W the Line Line San Juan the 984 1398 Latitude 36.73019 Longitude -107.96524 **NATURE OF RELEASE** Type of Release: Condensate Volume of Release ~5 BBLS Volume Recovered: None Source of Release: Tank Over Flow Date and Hour of Occurrence: Date and Hour of Discovery: December 7, 2011 @12:30 December 7, 2011 @12:30 p.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse ☐ Yes 🛛 No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action: On December 7, 2011, five (5) barrels of condensate was release into the unlined containment. Standing liquids was removed and initial remediation of the release was implemented where approximately 1, 077 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD landfarm facility. These activities are documented in the Corrective Action Report - Blanco Storage Vent Tank Release, dated January 6, 2012 (Southwest Geoscience). Due to operational and safety considerations, including third party pipeline right of ways (ROWs), lateral advancement of the December 2011 excavation was terminated prior to the removal of all petroleum hydrocarbon impacted soils. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was built to house the methanol and vent tanks. In 2014, the vent tank was permanently removed from service. In October 2014, Enterprise implemented a Supplemental Site Investigation to further assess subsurface impacts. Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches ranged from two (2) to eight (8) feet in depth. Describe Area Affected and Cleanup Action: In October 2014, Enterprise implemented a Supplemental Site Investigation to further assess subsurface impacts. Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches ranged from two (2) to eight (8) feet in depth. Base on the attached Supplemental Site Investigation report, additional corrective action is required. Enterprise anticipates the scheduling of the supplemental corrective actions in early 2015 based on available contractors. 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.

\* Attach Additional Sheets If Necessary



OIL CONS. DIV DIST. 3

JAN 02 2015

### **SUPPLEMENTAL SITE INVESTIGATION REPORT (2014)**

RP # 3R-438-0

Property:

Blanco Storage Vent Tank
NW 1/4 Section 14, T29N R11W
Bloomfield, San Juan County, New Mexico

December 11, 2014 Apex Project No. 7030411G018

Prepared for:

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

Prepared by:

Kyle Summers, C.P.G.

Branch Manager / Senior Geologist

Elizabeth & Caggs, P.G. Senior Program Manager

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	1.2	Project Objective	1
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Appendix A: **Figures** 

Appendix B: Table

Appendix C:

Laboratory Data Sheets & Chain of Custody Documentation



### **SUPPLEMENTAL SITE INVESTIGATION REPORT (2014)**

RP # 3R-438-0

Blanco Storage Vent Tank NW ¼ Section 14, T29N R11W Bloomfield, San Juan County, New

**Apex Project No. 7030411G018** 

#### 1.0 INTRODUCTION

#### 1.1 Site Description and Background

The Blanco Storage Vent Tank Release Site is located within the Enterprise Field Services, LLC (Enterprise) Blanco Storage facility in the Northwest (NW) ¼ of Section 14, Township 29 North and Range 11 West in Bloomfield, San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private land within the Enterprise Blanco Storage facility. The immediate surroundings are predominantly characterized by petroleum gathering and processing facilities.

On December 7th, 2011, evidence of a release was identified at the Site. An unknown quantity of natural gas condensate (condensate) and water was released into the unlined secondary containment as a result of an overflow from the vent tank. Soil discoloration indicates that the released fluids primarily pooled in the southern half of the containment, with the deepest pooling occurring in the southwest corner of the containment. Soil removal activities were initiated on December 14th, 2011 and resulted in the removal of approximately 1,077 cubic yards of affected soil, which was subsequently transported to the Envirotech, Inc. land farm facility near Hilltop, New Mexico for treatment/disposal. These activities are documented in the *Corrective Action Report – Blanco Storage Vent Tank Release*, dated January 6, 2012 (Southwest Geoscience).

Due to operational and safety considerations, including third party pipeline right of ways (ROWs), lateral advancement of the December 2011 excavation was terminated prior to the removal of all petroleum hydrocarbon impacted soils. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was built to house the methanol and vent tanks. During 2014, the vent tank was permanently taken out of service and removed from the Site.

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 Supplemental Site Investigation (SSI) was to further define the remaining hydrocarbon impact at the Site, which in turn, will help determine the best course of corrective action to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels.



#### 1.3 Site Ranking

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 OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.29 Remediation Plan. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action. Apex TITAN, Inc. (Apex) utilized the general site characteristics to determine the appropriate "ranking" for the Site. Ranking criteria and associated scoring are provided in the following table:

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

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

- Numerous wells are documented within a 1.5 mile radius of the site. The closest well, based on information obtained from the New Mexico State Engineer's Office is >1,000 feet to the southeast of the Site at a lower elevation on the valley floor. Groundwater was not encountered during the excavation activities, and the actual depth to groundwater is unknown. Based on data from other environmental studies in the vicinity, groundwater may be present at a depth of < 50 feet below grade surface (bgs) at the Site.</p>
- No water sources were identified in the immediate area.
- Bloomfield Canyon Arroyo, though generally dry, is located approximately 2,450 feet west
  of the Site. A seasonal irrigation ditch is located approximately 850 feet west of the Site.

Based on a Total Ranking Score of 30, cleanup goals for soil located at the Site include: 10 milligrams per kilogram (mg/Kg) for benzene, 50 mg/Kg for total benzene, toluene, ethylbenzene, and xylenes (BTEX), and 100 mg/Kg for total petroleum hydrocarbon (TPH) gasoline range organics (GRO)/diesel range organics (DRO).

#### 1.4 Standard of Care, Limitations & 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.

Enterprise Products Operating LLC Supplemental Site Investigation Repport Blanco Storage Vent Tank Apex Project No. 7030411G018 December 11, 2014



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 Field Services, LLC, 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.

#### 2.0 SITE INVESTIGATION

Enterprise implemented a SSI during October 2014 to further assess the incomplete corrective action excavation performed during December 2011. A backhoe was utilized to perform investigative trenching operations outside of the boundaries of the 2011 excavation.

#### 2.1 Investigative Trenching

Thirteen (13) trenches were advanced around the former excavation perimeter, measuring up to ten (10) feet in length and averaging 1.5 feet wide. The depths of the trenches varied from two (2) to eight (8) feet in depth, depending on the depth at which sandstone was encountered.

The lithology encountered during the completion of SSI activities consisted primarily of sands and silty sands, underlain by a shaley sandstone present at depths ranging from two (2) foot to eight (8) feet bgs. Groundwater was not encountered during the excavation activities.

### 2.2 Soil Sampling Program

Apex's soil sampling program included the collection of 28 investigation samples from the side walls and bottom of the investigative trenches for laboratory analysis. Depending on the final depth of the trench, either two (2) or three (3) samples were collected from each location. The soil sample intervals were selected to obtain the maximum coverage of the trench's vertical profile.

Figure 3 and Figure 4 depict the approximate dimensions of the December 2011 excavation and 2014 SSI trenches, respectively, as well as the analytical sample locations for soils remaining in place. (Appendix A).

The soil samples selected for laboratory analysis were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied label, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-

Enterprise Products Operating LLC Supplemental Site Investigation Repport Blanco Storage Vent Tank Apex Project No. 7030411G018 December 11, 2014



custody form were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

#### 3.0 LABORATORY ANALYTICAL METHODS

The soil samples selected for laboratory analysis were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (GRO) using EPA SW-846 Method #8015.

Laboratory results for the investigative soil samples are summarized in Table 1, included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

### 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 OCD rules, specifically NMAC 19.15.29 *Remediation Plan*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex compared the TPH GRO/DRO and BTEX concentrations or laboratory reporting limits (RLs) associated with the soil samples to the OCD *Remediation Action Levels* for a Site ranking of 30.

#### **Total Petroleum Hydrocarbons**

Investigative soil samples SR-1 through SR-14, SR-16, SR-18, SR-23 through SR-26, and SR-28 exhibited combined TPH GRO/DRO concentrations ranging from below the laboratory RL to 69 mg/Kg, which are below the OCD's *Remediation Action Level* of 100 mg/Kg.

Investigative soil samples SR-15, SR-17, SR-19 through SR-22, and SR-27 exhibited combined TRP GRO/DRO concentrations ranging from 152 mg/Kg to 3,900 mg/Kg, which exceed the OCD's *Remediation Action Level* of 100 mg/Kg.

#### Benzene

Investigative soil samples SR-1 through SR-28 exhibited benzene concentration levels ranging from below laboratory RLs to 2.8 mg/Kg, which are below the OCD's *Remediation Action Level* of 10 mg/Kg.

#### **Total BTEX**

Investigative soil samples SR-1 through SR-14, SR-16, SR-17, SR-18, SR-20, SR-22 through SR-26, and SR-28 exhibited total BTEX concentrations ranging from below the laboratory RLs to 21 mg/Kg, which are below the OCD's Remediation Action Level of 50 mg/Kg.

Investigative soil samples SR-15, SR-19, SR-21, and SR-27 exhibited total BTEX concentrations ranging from 161 mg/Kg to 405 mg/Kg, which exceed the OCD's *Remediation Action Level* of 50 mg/Kg.

Enterprise Products Operating LLC Supplemental Site Investigation Repport Blanco Storage Vent Tank Apex Project No. 7030411G018 December 11, 2014



The results of soil sample analyses are summarized in Table 1 of Appendix B. Figures 3 and 4 (Appendix A) provide sample locations, and identify the samples that exceeded the OCD Remediation Action Level for the 2011 excavation and the 2014 SSI, respectively.

#### 5.0 FINDINGS AND RECOMMENDATIONS

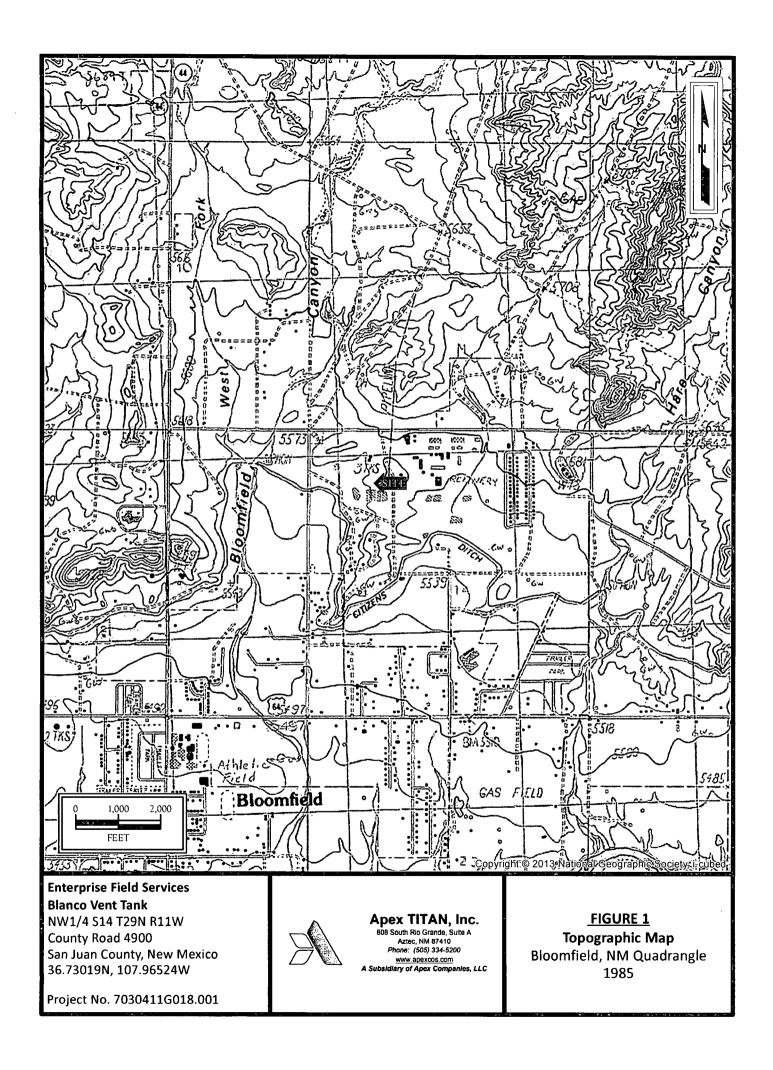
The Blanco Storage Vent Tank Release Site is located within the Enterprise Blanco Storage facility in the NW ¼ of Section 14, Township 29 North and Range 11 West in Bloomfield, San Juan County, New Mexico. The Site is located on private land within the Enterprise Blanco Storage facility. The immediate surroundings are predominantly characterized by petroleum gathering and processing facilities.

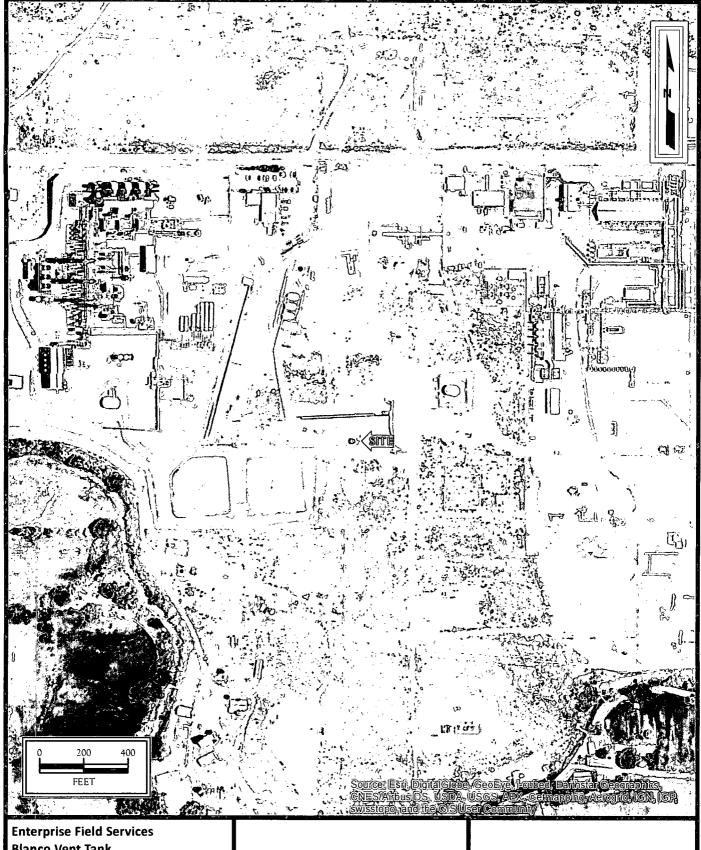
On December 7th, 2011, evidence of a release was identified at the Site. An unknown quantity of natural gas condensate (condensate) and water was released into the unlined secondary containment as a result of an overflow from the vent tank. Soil discoloration indicates that the released fluids primarily pooled in the southern half of the containment, with the deepest pooling occurring in the southwest corner of the containment. Soil removal activities were initiated on December 14th, 2011 and resulted in the removal of approximately 1,077 cubic yards of affected soil, which was subsequently transported to the Envirotech, Inc. land farm facility near Hilltop, New Mexico for treatment/disposal.

Due to operational and safety considerations, including third party pipeline right of ways (ROWs), lateral advancement of the December 2011 excavation was terminated prior to the removal of all petroleum hydrocarbon impacted soils. The excavation was backfilled with clean fill to surrounding grade, and a new, lined containment area was built to house the methanol and vent tanks. During 2014, the vent tank was permanently taken out of service and removed from the Site.

- The primary objective of the SSI was to further define the remaining hydrocarbon impact
  at the Site,, which in turn, will help determine the best course of corrective action to
  reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD
  OCD Remediation Action Levels.
- The lithology encountered during the completion of SSI activities consisted primarily of sands and silty sands, underlain by a shaley sandstone present at depths ranging from two (2) foot to eight (8) feet bgs. Groundwater was not encountered during the excavation activities.
- Analytical data obtained from the SSI indicates affected soils previously identified at the eastern, southeastern, and southern sidewalls of the former excavation are limited in extent.
- Analytical data obtained from the SSI indicates hydrocarbon impact is present west and southwest of the former excavation, exhibiting BTEX and TPH concentrations that exceed the OCD Remediation Action Levels. The extent of this impact is not fully defined.

Based on data obtained from the SSI, additional corrective action is necessary at the former release Site. The presence of affected soils to the west (cross-gradient) may indicate a second historic release source.





**Bianco Vent Tank** NW1/4 S14 T29N R11W County Road 4900 San Juan County, New Mexico 36.73019N, 107.96524W

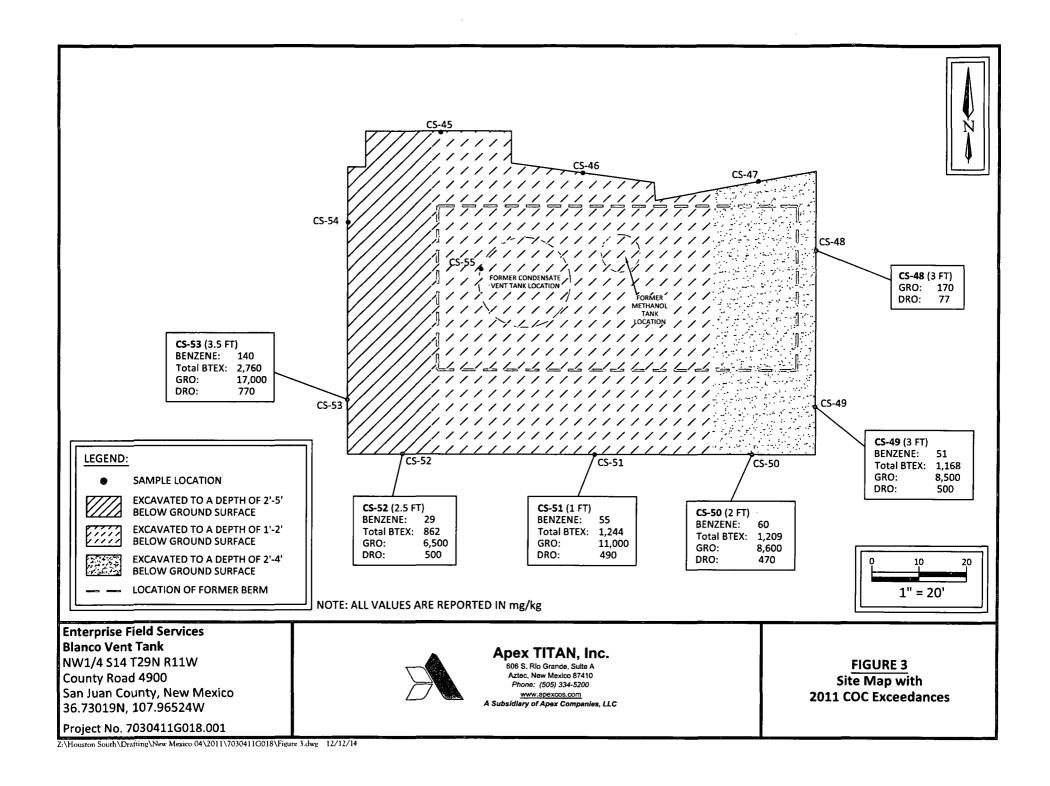
Project No. 7030411G018.001

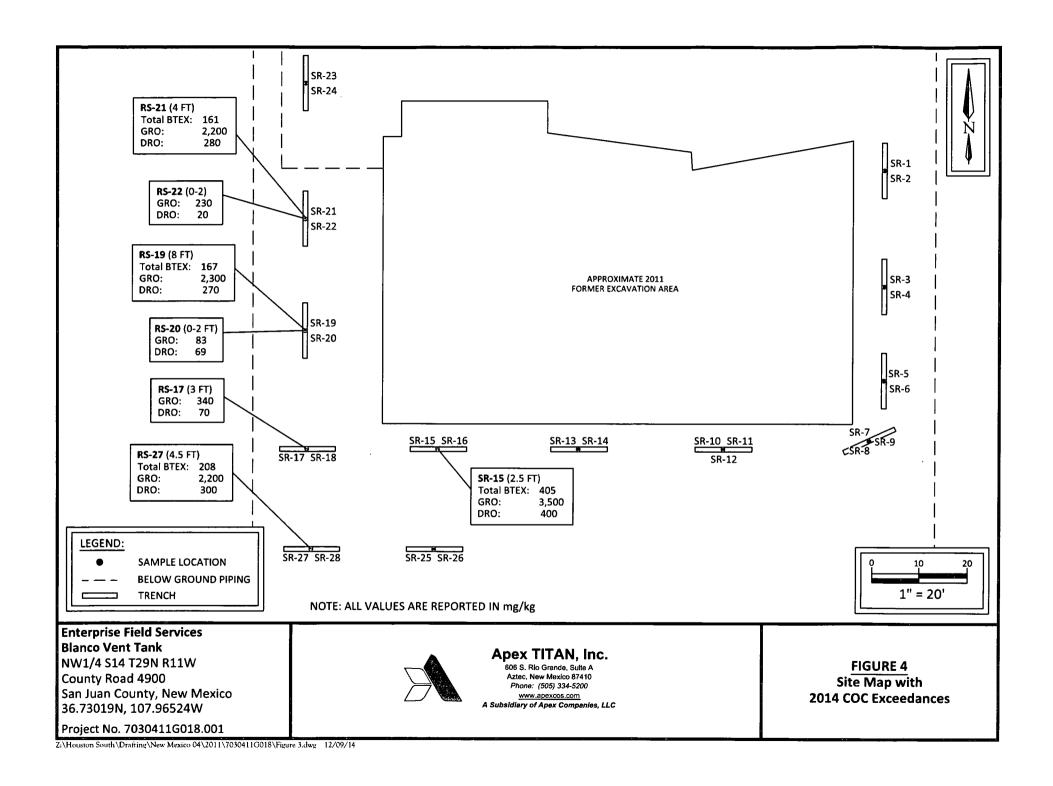


Apex TITAN, Inc. 608 South Rio Grande, Suite A Aztec, NM 87410 Phone: (505) 334-5200

www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 2 **Site Vicinity Map** 







### DRAFT TABLE 1 Blanco Storage Vent Tank Release soil analytical results

Sample I.D.	Date	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)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division, Remediation Action Level		10	NE	NE	NE	50	100		
Corrective Action Sample Results for Soils Remaining in Place- 2011									
CS-45	12/19/2011	2.0	<0.049	<0.049	<0.049	<0.097	<0.25	<4.9	<10
CS-46	12/19/2011	2.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
CS-47	12/19/2011	3.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<10
CS-48	12/19/2011	3.0	<0.095	3.8	1.4	19	24.2	170	77
CS-49	12/19/2011	3.0	51	450	57	610	1,168	8,500	500
CS-50	12/19/2011	2.0	62	470	57	620	1,209	8,600	470
CS-51	12/19/2011	1.0	55	480	59	650	1,244	11,000	490
CS-52	12/19/2011	2.5	29	300	43	490	862	6,500	500
CS-53	12/19/2011	3.5	140	1,100	120	1,400	2,760	17,000	770
CS-54	12/19/2011	3.0	<0.048	<0.048	<0.048	<0.096	<0.24	<4.8	<9.7
CS-55	12/19/2011	3.0	<0.047	<0.047	<0.047	<0.094	<0.24	6.5	11
				SSI Sample	Results - 2014	1			
SR-1	10/22/2014	3.5	<0.046	<0.046	<0.046	<0.093	ND	<4.6	<10
SR-2	10/22/2014	0 to 3.5	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10
SR-3	10/22/2014	3	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10
SR-4	10/22/2014	0 to 3	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<10
SR-5	10/22/2014	2.25	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<10
SR-6	10/22/2014	0 to 2	<0.046	<0.046	<0.046	<0.092	ND	<4.6	<9.9
SR-7	10/22/2014	1 to 4	<0.047	<0.047	<0.047	<0.093	ND	<4.7	<10
SR-8	10/22/2014	5	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.9
SR-9	10/22/2014	6	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.9
SR-10	10/22/2014	1 to 4	<0.046	<0.046	<0.046	<0.093	ND	<4.6	38
SR-11	10/22/2014	0 to 1	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10
SR-12	10/22/2014	5	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10



### DRAFT TABLE 1 Blanco Storage Vent Tank Release SOIL ANALYTICAL RESULTS

Sample I.D.	Date	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)
		Natural Resources vision, Remediation	10	NE	NE	NE	50 100		00
SR-13	10/22/2014	2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10
SR-14	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10
SR-15	10/22/2014	2.5	2.4	99	24	280	405	3,500	400
SR-16	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10
SR-17	10/22/2014	3	<0.24	1.7	0.83	18	21	340	70
SR-18	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<9.8
SR-19	10/22/2014	8	1.9	37	8.2	120	167	2,300	270
SR-20	10/22/2014	0 to 2	<0.047	0.25	0.11	1.9	2.3	83	69
SR-21	10/22/2014	4	2.7	33	5.6	120	161	2,200	280
SR-22	10/22/2014	0 to 2	<0.12	0.83	0.41	11	12	230	20
SR-23	10/22/2014	3	<0.048	<0.048	<0.048	<0.095	ND	<4.8	11
SR-24	10/22/2014	0 to 2	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<9.9
SR-25	10/22/2014	4	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10
SR-26	10/22/2014	0 to 2	<0.050	<0.050	<0.050	<0.099	ND	<5.0	<10
SR-27	10/22/2014	4.5	2.8	35	9.8	160	208	2,200	300
SR-28	10/22/2014	0 to 3	<0.046	0.065	<0.046	0.89	0.96	17	52

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

NE = Not Established

ND=Not Detected above the Laboratory Reporting Limits



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

October 30, 2014

**Kyle Summers** 

APEX AZTEC

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX (505) 334-5204

RE: Blanco Vent Tank

OrderNo.: 1410B12

### Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/23/2014 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 OC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-1

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:30:00 AM

Lab ID: 1410B12-001

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:13:53 PM	1 16062
Surr: DNOP	92.6	63.5-128	%REC	1	10/24/2014 6:13:53 PM	1 16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 3:34:11 AM	1 16069
Surr: BFB	100	80-120	%REC	1	10/26/2014 3:34:11 AM	1 16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 AM	1 16069
Toluene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 AM	1 16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 3:34:11 AM	1 16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 3:34:11 AM	1 16069
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	10/26/2014 3:34:11 AM	1 16069

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

#### 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

Page 1 of 34

- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Lab ID:

Client Sample ID: SR-2

Project: Blanco Vent Tank

1410B12-002

Collection Date: 10/22/2014 9:35:00 AM Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:35:59 P	M 16062
Surr: DNOP	90.0	63.5-128	%REC	1	10/24/2014 6:35:59 P	M 16062
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 1:06:35 P	M 16069
Surr: BFB	88.7	80-120	%REC	1	10/26/2014 1:06:35 P	M 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 P	M 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 P	M 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 1:06:35 P	M 16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 1:06:35 P	M 16069
Surr: 4-Bromofluorobenzene	88.4	80-120	%REC	1	10/26/2014 1:06:35 P	M 16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-3

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:40:00 AM

**Lab ID:** 1410B12-003

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	EPA METHOD 8015D: DIESEL RANGE ORGANICS					BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 6:58:08 PM	16062
Surr: DNOP	102	63.5-128	%REC	1	10/24/2014 6:58:08 PM	16062
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Surr: BFB	90.3	80-120	%REC	1	10/26/2014 1:35:07 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2014 1:35:07 PM	16069
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	10/26/2014 1:35:07 PM	16069

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

# 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-4

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 9:45:00 AM

Lab ID: 1410B12-004

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS	,			Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 7:20:12 P	M 16062
Surr: DNOP	89.8	63.5-128	%REC	1	10/24/2014 7:20:12 P	M 16062
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/26/2014 2:03:45 P	M 16069
Surr: BFB	90.6	80-120	%REC	1	10/26/2014 2:03:45 P	M 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 P	M 16069
Toluene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 P	M 16069
Ethylbenzene	ND	0.048	mg/Kg	1	10/26/2014 2:03:45 P	M 16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 2:03:45 P	M 16069
Surr: 4-Bromofluorobenzene	91.5	80-120	%REC	1	10/26/2014 2:03:45 P	M 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-5

Project: Blanco Vent Tank

Collection Date: 10/22/2014 9:55:00 AM

**Lab ID:** 1410B12-005

**Matrix:** SOIL **Received Date:** 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 7:42:15 PM	16062
Surr: DNOP	90.7	63.5-128	%REC	1	10/24/2014 7:42:15 PM	16062
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/26/2014 2:32:23 PM	16069
Surr: BFB	98.4	80-120	%REC	1	10/26/2014 2:32:23 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PM	16069
Toluene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PM	16069
Ethylbenzene	ND	0.048	mg/Kg	1	10/26/2014 2:32:23 PM	16069
Xylenes, Total	ND	0.096	mg/Kg	1	10/26/2014 2:32:23 PM	16069
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	10/26/2014 2:32:23 PM	16069

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

#### 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

Page 5 of 34

- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-6

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:00:00 AM

**Lab ID:** 1410B12-006

Matrix: SOIL

**Received Date:** 10/23/2014 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS		<u> </u>		Analys	: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 8:04:05 PM	1 16062
Surr: DNOP	98.6	63.5-128	%REC	1	10/24/2014 8:04:05 PN	1 16062
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 3:01:00 PN	1 16069
Surr: BFB	91.5	80-120	%REC	1	10/26/2014 3:01:00 PM	1 16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Toluene	ND	0.046	mg/Kg	1	10/26/2014 3:01:00 PM	1 16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 3:01:00 PN	1 16069
Xylenes, Total	ND	0.092	mg/Kg	1	10/26/2014 3:01:00 PN	1 16069
Surr: 4-Bromofluorobenzene	91.3	80-120	%REC	1	10/26/2014 3:01:00 PN	1 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-7

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:05:00 AM

**Lab ID:** 1410B12-007

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	SE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/24/2014 8:26:03 PN	1 16062
Surr: DNOP	106	63.5-128	%REC	1	10/24/2014 8:26:03 PM	1 16062
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Surr: BFB	89.7	80-120	%REC	1	10/26/2014 3:29:40 PM	16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PM	1 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PN	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 3:29:40 PN	16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 3:29:40 PM	16069
Surr: 4-Bromofluorobenzene	89.9	80-120	%REC	1	10/26/2014 3:29:40 PM	16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-8

Project: Blanco Vent Tank

Collection Date: 10/22/2014 10:15:00 AM Received Date: 10/23/2014 7:30:00 AM

**Lab ID:** 1410B12-008 **Matrix:** SOIL

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS		_		Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 8:47:48 PM	16062
Surr: DNOP	91.6	63.5-128	%REC	1	10/24/2014 8:47:48 PM	16062
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 3:58:16 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 3:58:16 PM	16069
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	10/26/2014 3:58:16 PM	16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-9

Project: Blanco Vent Tank

Collection Date: 10/22/2014 10:20:00 AM Received Date: 10/23/2014 7:30:00 AM

**Lab ID:** 1410B12-009

Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analy	st: BCN	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/24/2014 9:09:37 F	M 16062	
Surr: DNOP	87.1	63.5-128	%REC	1	10/24/2014 9:09:37 F	M 16062	
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 4:26:47 F	M 16069	
Surr: BFB	89.1	80-120	%REC	1	10/26/2014 4:26:47 F	M 16069	
EPA METHOD 8021B: VOLATILES					Analy	st: NSB	
Benzene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 F	M 16069	
Toluene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 F	M 16069	
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 4:26:47 F	M 16069	
Xylenes, Total	ND	0.095	mg/Kg	1	10/26/2014 4:26:47 F	M 16069	
Surr: 4-Bromofluorobenzene	89.6	80-120	%RFC	1	10/26/2014 4·26·47 F	M 16069	

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-10

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:25:00 AM

**Lab ID:** 1410B12-010

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	38	10	mg/Kg	1	10/24/2014 9:31:16 PM	16062
Surr: DNOP	88.4	63.5-128	%REC	1	10/24/2014 9:31:16 PM	16062
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/26/2014 4:55:18 PM	16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 4:55:18 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	16069
Toluene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	16069
Ethylbenzene	ND	0.046	mg/Kg	1	10/26/2014 4:55:18 PM	16069
Xylenes, Total	ND	0.093	mg/Kg	1	10/26/2014 4:55:18 PM	16069
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	10/26/2014 4:55:18 PM	16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-11

Project: Blanco Vent Tank

Collection Date: 10/22/2014 10:30:00 AM Received Date: 10/23/2014 7:30:00 AM

Lab ID: 1410B12-011 Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	EPA METHOD 8015D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 2:55:06 AM	16063
Surr: DNOP	93.4	63.5-128	%REC	1	10/25/2014 2:55:06 AM	16063
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Surr: BFB	90.3	80-120	%REC	1	10/26/2014 5:23:56 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2014 5:23:56 PM	16069
Surr: 4-Bromofluorobenzene	91.3	80-120	%REC	1	10/26/2014 5:23:56 PM	16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-12

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:40:00 AM

**Lab ID:** 1410B12-012

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 3:59:15 AM	1 16063
Surr: DNOP	97.9	63.5-128	%REC	1	10/25/2014 3:59:15 AM	1 16063
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2014 9:12:57 PM	16069
Surr: BFB	89.0	80-120	%REC	1	10/26/2014 9:12:57 PM	16069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 PM	1 16069
Toluene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 PM	16069
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2014 9:12:57 PM	16069
Xylenes, Total	ND	0.099	mg/Kg	1	10/26/2014 9:12:57 PM	16069
Surr: 4-Bromofluorobenzene	89.5	80-120	%REC	1	10/26/2014 9:12:57 PM	1 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-13

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 10:45:00 AM

**Lab ID:** 1410B12-013

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 4:20:42 AM	16063
Surr: DNOP	95.6	63.5-128	%REC	1	10/25/2014 4:20:42 AM	16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Surr: BFB	90.0	80-120	%REC	1	10/26/2014 9:41:29 PM	16069
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Xylenes, Total	ND	0.094	mg/Kg	1	10/26/2014 9:41:29 PM	16069
Surr: 4-Bromofluorobenzene	91.2	80-120	%REC	1	10/26/2014 9:41:29 PM	16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-14

Project: Blanco Vent Tank

Lab ID: 1410B12-014

Collection Date: 10/22/2014 10:50:00 AM Received Date: 10/23/2014 7:30:00 AM

Result Analyses **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN Diesel Range Organics (DRO) ND 10/25/2014 4:42:03 AM 16063 10 mg/Kg Surr: DNOP %REC 98.2 63.5-128 10/25/2014 4:42:03 AM 16063 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 10/26/2014 10:09:59 PM 16069 4.7 mg/Kg Surr: BFB %REC 10/26/2014 10:09:59 PM 16069 89.8 80-120 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 10/26/2014 10:09:59 PM 16069 Benzene 0.047 mg/Kg Toluene ND 0.047 mg/Kg 10/26/2014 10:09:59 PM 16069 Ethylbenzene ND 0.047 mg/Kg 10/26/2014 10:09:59 PM 16069 Xylenes, Total ND 0.094 mg/Kg 10/26/2014 10:09:59 PM 16069 Surr: 4-Bromofluorobenzene 90.9 %REC 80-120 10/26/2014 10:09:59 PM 16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-15

Project: Blanco Vent Tank

Lab ID: 1410B12-015 Collection Date: 10/22/2014 10:55:00 AM Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	400	10		mg/Kg	1	10/25/2014 5:03:45 A	M 16063
Surr: DNOP	98.7	63.5-128		%REC	1	10/25/2014 5:03:45 A	M 16063
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB	
Gasoline Range Organics (GRO)	3500	240		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Surr: BFB	209	80-120	s	%REC	50	10/26/2014 10:38:35	PM 16069
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	2.4	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Toluene	99	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Ethylbenzene	24	2.4		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Xylenes, Total	280	4.7		mg/Kg	50	10/26/2014 10:38:35	PM 16069
Surr: 4-Bromofluorobenzene	109	80-120		%REC	50	10/26/2014 10:38:35	PM 16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-16

Project: Blanco Vent Tank

Collection Date: 10/22/2014 11:00:00 AM

**Lab ID:** 1410B12-016

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS		<u> </u>		Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 5:25:09 A	M 16063
Surr: DNOP	106	63.5-128	%REC	1	10/25/2014 5:25:09 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Surr: BFB	90.9	80-120	%REC	1	10/26/2014 11:07:12	PM 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Toluene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Xylenes, Total	ND	0.094	mg/Kg	1	10/26/2014 11:07:12	PM 16069
Surr: 4-Bromofluorobenzene	92.0 .	80-120	%REC	1	10/26/2014 11:07:12	PM 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-17

Project: Blanco Vent Tank

Collection Date: 10/22/2014 11:05:00 AM

**Lab ID:** 1410B12-017

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Anal	yst: BCN
Diesel Range Organics (DRO)	70	9.8		mg/Kg	1	10/25/2014 5:46:33	AM 16063
Surr: DNOP	101	63.5-128		%REC	1	10/25/2014 5:46:33	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE					Anal	yst: <b>NSB</b>
Gasoline Range Organics (GRO)	340	49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Surr: BFB	175	80-120	S	%REC	10	10/26/2014 11:35:46	PM 16069
EPA METHOD 8021B: VOLATILES						Anal	yst: NSB
Benzene	ND	0.24		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Toluene	1.7	0.49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Ethylbenzene	0.83	0.49		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Xylenes, Total	18	0.97		mg/Kg	10	10/26/2014 11:35:46	PM 16069
Surr: 4-Bromofluorobenzene	102	80-120		%REC	10	10/26/2014 11:35:46	PM 16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 Page 17 of 34
  - P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-18

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:15:00 AM

**Lab ID:** 1410B12-018

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al_Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/25/2014 6:07:50	AM 16063
Surr: DNOP	99.7	63.5-128	%REC	1	10/25/2014 6:07:50 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Surr: BFB	90.5	80-120	%REC	1	10/27/2014 12:04:25	AM 16069
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Toluene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Ethylbenzene	ND	0.047	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 12:04:25	AM 16069
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	10/27/2014 12:04:25	AM 16069

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-19

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:20:00 AM

Lab ID: 1410B12-019

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			<del>-</del>		Analy	st: BCN
Diesel Range Organics (DRO)	270	10		mg/Kg	1	10/25/2014 6:29:16 A	M 16063
Surr: DNOP	105	63.5-128		%REC	1	10/25/2014 6:29:16 A	M 16063
EPA METHOD 8015D: GASOLINE RA	ANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	2300	240		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Surr: BFB	183	80-120	S	%REC	50	10/27/2014 12:32:58	AM 16069
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	1.9	1.2		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Toluene	37	2.4		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Ethylbenzene	8.2	2.4		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Xylenes, Total	120	4.7		mg/Kg	50	10/27/2014 12:32:58	AM 16069
Surr: 4-Bromofluorobenzene	104	80-120		%REC	50	10/27/2014 12:32:58	AM 16069

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

**Client Sample ID: SR-20** 

Project: Blanco Vent Tank Collection Date: 10/22/2014 11:25:00 AM

Lab ID:

1410B12-020

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				-	Analyst	BCN
Diesel Range Organics (DRO)	69	10		mg/Kg	1	10/25/2014 6:50:37 AM	16063
Surr: DNOP	104	63.5-128		%REC	1	10/25/2014 6:50:37 AM	16063
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	83	4.7		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Surr: BFB	503	80-120	S	%REC	1	10/27/2014 1:01:34 AM	16069
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Toluene	0.25	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Ethylbenzene	0.11	0.047		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Xylenes, Total	1.9	0.095		mg/Kg	1	10/27/2014 1:01:34 AM	16069
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	10/27/2014 1:01:34 AM	16069

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

#### 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
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.

Reporting Detection Limit

RL

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## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-21

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:35:00 AM

**Lab ID:** 1410B12-021

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	SE ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	280	9.9		mg/Kg	1	10/25/2014 7:11:56 AM	16063
Surr: DNOP	104	63.5-128		%REC	1	10/25/2014 7:11:56 AM	16063
EPA METHOD 8015D: GASOLINE RA	ANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	2200	240		mg/Kg	50	10/27/2014 1:30:02 AM	16070
Surr: BFB	153	80-120	s	%REC	50	10/27/2014 1:30:02 AM	16070
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	2.7	2.4		mg/Kg	50	10/27/2014 1:30:02 AM	16070
Toluene	33	2.4		mg/Kg	50	10/27/2014 1:30:02 AM	16070
Ethylbenzene	5.6	2.4		mg/Kg	50	10/27/2014 1:30:02 AM	16070
Xylenes, Total	120	4.9		mg/Kg	50	10/27/2014 1:30:02 AM	16070
Surr: 4-Bromofluorobenzene	105	80-120		%REC	50	10/27/2014 1:30:02 AM	16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

**Client Sample ID: SR-22** 

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:40:00 AM

**Lab ID:** 1410B12-022

Matrix: SOIL

**Received Date:** 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analy	st: BCN
Diesel Range Organics (DRO)	20	10		mg/Kg	1	10/25/2014 7:33:09	AM 16063
Surr: DNOP	98.7	63.5-128		%REC	1	10/25/2014 7:33:09	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE					Analy	st: NSB
Gasoline Range Organics (GRO)	230	24		mg/Kg	5	10/27/2014 10:37:14	AM 16070
Surr: BFB	193	80-120	s	%REC	5	10/27/2014 10:37:14	AM 16070
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.12		mg/Kg	5	10/27/2014 10:37:14	AM 16070
Toluene	0.83	0.24		mg/Kg	5	10/27/2014 10:37:14	AM 16070
Ethylbenzene	0.41	0.24		mg/Kg	5	10/27/2014 10:37:14	AM 16070
Xylenes, Total	11	0.49		mg/Kg	5	10/27/2014 10:37:14	AM 16070
Surr: 4-Bromofluorobenzene	104	80-120		%REC	5	10/27/2014 10:37:14	AM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** APEX AZTEC

Client Sample ID: SR-23

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:50:00 AM

Lab ID: 1410B12-023

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS		<u> </u>		Anal	yst: <b>BCN</b>
Diesel Range Organics (DRO)	11	10	mg/Kg	1	10/25/2014 7:54:31	AM 16063
Surr: DNOP	97.6	63.5-128	%REC	1	10/25/2014 7:54:31 /	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	yst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/27/2014 11:05:50	AM 16070
Surr: BFB	107	80-120	%REC	1	10/27/2014 11:05:50	AM 16070
EPA METHOD 8021B: VOLATILES					Analy	yst: NSB
Benzene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070
Toluene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070
Ethylbenzene	ND	0.048	mg/Kg	1	10/27/2014 11:05:50	AM 16070
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 11:05:50	AM 16070
Surr: 4-Bromofluorobenzene	93.2	80-120	%REC	1	10/27/2014 11:05:50	AM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-24

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 11:55:00 AM

Lab ID: 1410B12-024

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/25/2014 8:15:46 A	M 16063
Surr: DNOP	116	63.5-128	%REC	1	10/25/2014 8:15:46 A	M 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/27/2014 11:34:28	AM 16070
Surr: BFB	90.0	80-120	%REC	1	10/27/2014 11:34:28	AM 16070
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/27/2014 11:34:28	AM 16070
Toluene	ND	0.047	mg/Kg	1	10/27/2014 11:34:28	AM 16070
Ethylbenzene	ND	0.047	mg/Kg	1	10/27/2014 11:34:28	AM 16070
Xylenes, Total	ND	0.094	mg/Kg	1	10/27/2014 11:34:28	AM 16070
Surr: 4-Bromofluorobenzene	92.3	80-120	%REC	1	10/27/2014 11:34:28	AM 16070

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

## 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

#### Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-25

Project: Blanco Vent Tank

Collection Date: 10/22/2014 12:05:00 PM

**Lab ID:** 1410B12-025

Matrix: SOIL

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 8:37:06 A	M 16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 8:37:06 A	M 16063
EPA METHOD 8015D: GASOLINE RANGE					Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Surr: BFB	89.3	80-120	%REC	1	10/27/2014 12:03:11	PM 16070
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Toluene	ND	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Ethylbenzene	ND .	0.047	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Xylenes, Total	ND	0.095	mg/Kg	1	10/27/2014 12:03:11	PM 16070
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	10/27/2014 12:03:11	PM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-26

Project: Blanco Vent Tank

Collection Date: 10/22/2014 12:15:00 PM

**Lab ID:** 1410B12-026

Matrix: SOIL Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	/st: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/25/2014 8:58:21 A	AM 16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 8:58:21 /	AM 16063
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Surr: BFB	89.1	80-120	%REC	1	10/27/2014 12:31:48	PM 16070
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Toluene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Ethylbenzene	ND	0.050	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Xylenes, Total	ND	0.099	mg/Kg	1	10/27/2014 12:31:48	PM 16070
Surr: 4-Bromofluorobenzene	89.8	80-120	%REC	1	10/27/2014 12:31:48	PM 16070

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

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Lab Order 1410B12

Date Reported: 10/30/2014

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-27

Project: Blanco Vent Tank

**Collection Date:** 10/22/2014 12:20:00 PM

**Lab ID:** 1410B12-027

Received Date: 10/23/2014 7:30:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	300	9.9		mg/Kg	1	10/25/2014 9:19:45 AM	16063
Surr: DNOP	118	63.5-128		%REC	1	10/25/2014 9:19:45 AM	16063
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	2200	240		mg/Kg	50	10/27/2014 1:00:23 PM	16070
Surr: BFB	155	80-120	s	%REC	50	10/27/2014 1:00:23 PM	16070
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.8	2.4		mg/Kg	50	10/27/2014 1:00:23 PM	16070
Toluene	35	2.4		mg/Kg	50	10/27/2014 1:00:23 PM	16070
Ethylbenzene	9.8	2.4		mg/Kg	50	10/27/2014 1:00:23 PM	16070
Xylenes, Total	160	4.7		mg/Kg	50	10/27/2014 1:00:23 PM	16070
Surr: 4-Bromofluorobenzene	104	80-120		%REC	50	10/27/2014 1:00:23 PM	16070

Matrix: SOIL

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

## Lab Order 1410B12

Date Reported: 10/30/2014

10/27/2014 1:29:05 PM 16070

10/27/2014 1:29:05 PM 16070

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT: APEX AZTEC** 

Client Sample ID: SR-28

Project: Blanco Vent Tank Collection Date: 10/22/2014 12:25:00 PM Received Date: 10/23/2014 7:30:00 AM

Lab ID: 1410B12-028

Xylenes, Total

Surr: 4-Bromofluorobenzene

Matrix: SOIL

0.89

94.8

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANC	SE ORGANICS	·			Analys	st: BCN
Diesel Range Organics (DRO)	52	10	mg/Kg	1	10/25/2014 9:41:01 Al	M 16063
Surr: DNOP	113	63.5-128	%REC	1	10/25/2014 9:41:01 A	M 16063
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	17	4.6	mg/Kg	1	10/27/2014 1:29:05 PI	M 16070
Surr: BFB	110	80-120	%REC	1	10/27/2014 1:29:05 Pt	M 16070
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.046	mg/Kg	1	10/27/2014 1:29:05 PI	M 16070
Toluene	0.065	0.046	mg/Kg	1	10/27/2014 1:29:05 PI	M 16070
Ethylbenzene	ND	0.046	mg/Kg	1	10/27/2014 1:29:05 PI	M 16070

0.091

80-120

mg/Kg

%REC

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- o RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- Reporting Detection Limit RL

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1410B12

30-Oct-14

Client: Project:	APEX AZ Blanco V										
Sample ID	MB-16062	SampTy	ре: МВ	LK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	Batch	ID: <b>16</b> 0	062	F	RunNo: 2	2124				
Prep Date:	10/23/2014	Analysis Da	te: 10	/24/2014	S	SeqNo: 6	52213	Units: mg/K	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	ND	10								
Surr: DNOP		8.6		10.00		86.3	63.5	128			
Sample ID	LCS-16062	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	LCSS	Batch	ID: <b>16</b> 0	062	F	RunNo: 2	2124				
Prep Date:	10/23/2014	Analysis Da	ite: 10	/24/2014	\$	SeqNo: 6	52214	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	57	10	50.00	0	113	68.6	130			
Surr: DNOP		4.5		5.000		89.6	63.5	128			
Sample ID	MB-16063	SampTy	pe: ME	LK	Tes	tCode: El	PA Method	8015D: Dies	el Range (	 Organics	
Client ID:	PBS	Batch	ID: <b>16</b> 0	063	F	RunNo: 2	2124				
Prep Date:	10/23/2014	Analysis Da	ite: 10	/25/2014	5	SeqNo: 6	52355	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	ND	10	_		_					
Surr: DNOP		8.8		10.00	·· · · · · · · · · · · · · · · · · · ·	88.3	63.5	128			
Sample ID	LCS-16063	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	LCSS	Batch	ID: <b>16</b> 0	063	F	RunNo: 2	2124				
Prep Date:	10/23/2014	Analysis Da	ite: 10	/25/2014	5	SeqNo: 6	52356	Units: mg/H	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	53	10	50.00	0	107	68.6	130			
Surr: DNOP		4.3		5.000		85.4	63.5	128			
Sample ID	1410B12-011AMS	<b>D</b> SampTy	pe: MS	SD.	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	SR-11	Batch	ID: <b>16</b> 0	063	F	RunNo: 2	2124				
Prep Date:	10/23/2014	Analysis Da	ite: 10	/25/2014	5	SeqNo: 6	52358	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	60	10	50.30	0	120	40.1	152	13.9	32.1	
Surr: DNOP		5.8		5.030		115	63.5	128	0	0	
Sample ID	MB-16093	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID:	PBS	Batch	ID: <b>16</b>	093	F	RunNo: 2	2152				

## Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level.

Analysis Date: 10/27/2014

Result

Value above quantitation range E

Prep Date: 10/27/2014

- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

SeqNo: 652710

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Units: %REC

%RPD

**RPDLimit** 

Qual

HighLimit

P Sample pH greater than 2.

SPK value SPK Ref Val %REC LowLimit

RLReporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1410B12 30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID MB-16093	SampT	SampType: MBLK			tCode: El	PA Method	8015D: Diese	el Range (	Organics		
Client ID: PBS	Batch	ID: 16	093	F	RunNo: 2	2152					
Prep Date: 10/27/2014	Analysis Date: 10/27/2014		Analysis Date: 10/27/2014		S	SeqNo: 6	52710	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.6		10.00		85.7	63.5	128				

Sample ID LCS-16093	Samp	Гуре: <b>LC</b>	cs	Tes	tCode: E	PA Method	8015D: Dies	el Range (	Organics	
Client ID: LCSS	Batc	h ID: 16	093	F	RunNo: 2	2152				
Prep Date: 10/27/2014	10/27/2014 Analysis Date: 10/27/2			S	SeqNo: 6	52711	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000	-	100	63.5	128			

Sample ID 1410B12-011AMS	SampT	ype: MS	3	Test	Code: El	PA Method	8015D: Diese	el Range C	Organics				
Client ID: SR-11	Batch	ID: <b>16</b>	063	R	tunNo: 2	2152							
Prep Date: 10/23/2014	Analysis Date: 10/27/2014			0/23/2014 Analysis Date: 10/27/2014 SeqNo: 652712				4 SeqNo: 652712 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	52	10	50.35	0	104	40.1	152						
Surr: DNOP	6.2		5.035		123	63.5	128						

# 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

Page 30 of 34

- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1410B12

30-Oct-14

Client:

APEX AZTEC

Rlanco Vent Tanl

Project:	Blanco	Vent Tank									
Sample ID	MB-16069	SampT	ype: ME	BLK	Test	Code: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch	ID: <b>16</b>	069	R	unNo: 2	2140				
Prep Date:	10/23/2014	Analysis D	ate: 10	)/25/2014	S	eqNo: 6	51578	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 970	5.0	1000		96.5	80	120			
Sample ID	LCS-16069	SampT	ype: LC	s	Test	:Code: <b>Ef</b>	PA Method	8015D: Gaso	line Rang	e	·
Client ID:	LCSS	Batch	1D: <b>16</b>	069	R	unNo: 2	2140				
Prep Date:	10/23/2014	Analysis D	ate: 10	0/25/2014	S	eqNo: 6	51579	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	28	5.0	25.00	0	110	65.8	139	-		
Surr: BFB		1000		1000		105	80	120			
Sample ID	1410B12-002AM	SampT	ype: MS	3	Tes	Code: Ef	PA Method	8015D: Gaso	line Rang	e	
Client ID:	SR-2	Batch	1D: <b>16</b>	069	R	unNo: 2	2140				
Prep Date:	10/23/2014	Analysis D	ate: 10	0/26/2014	S	eqNo: 6	51581	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	je Organics (GRO)	28	4.7	23.70	0	119	71.8	132			
Surr: BFB	<del>-</del>	980		947.9		104	80	120			
Sample ID	1410B12-002AM	SD SampT	ype: MS	SD O	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	SR-2	Batch	n ID: <b>16</b>	069	F	tunNo: 2	2140				
Prep Date:	10/23/2014	Analysis D	ate: 10	0/26/2014	S	eqNo: 6	51582	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Omanics (GRO)						LOWEIIII	riignemiit	70111		
	go organiso (orto)	28	4.7	23.72	0	118	71.8	132	0.715	20	
Surr: BFB		1000	4.7	23.72 948.8	0						
	MB-16070	1000	4.7 ype: <b>ME</b>	948.8		118 106	71.8 80	132	0.715 0	20 0	
		1000 SampT		948.8 BLK	Tes	118 106	71.8 80 PA Method	132 120	0.715 0	20 0	=
Sample ID Client ID:	MB-16070	1000 SampT	ype: <b>ME</b>	948.8 BLK 070	Tes:	118 106 Code: <b>E</b>	71.8 80 PA Method 2145	132 120	0.715 0 Iine Rang	20 0	
Sample ID Client ID:	MB-16070 PBS	1000 SampT Batch	ype: ME n ID: 16 Pate: 10	948.8 BLK 070 0/26/2014	Tes:	118 106 Code: EF tunNo: 2:	71.8 80 PA Method 2145 51985	132 120 <b>8015D: Gasc</b>	0.715 0 Iine Rang	20 0	Qual
Sample ID Client ID: Prep Date: Analyte	MB-16070 PBS	SampT Batch Analysis D	ype: <b>ME</b> 1D: 16	948.8 BLK 070 0/26/2014	Tes R S	118 106 Code: EF tunNo: 2:	71.8 80 PA Method 2145 51985	132 120 <b>8015D: Gasc</b> Units: <b>mg/k</b>	0.715 0 bline Rang	20 0	
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	MB-16070 PBS 10/23/2014	SampT Batch Analysis D Result ND 890	ype: ME n ID: 16 Pate: 10	948.8  BLK  070  0/26/2014  SPK value  1000	Tes F S SPK Ref Val	118 106 Code: EF SunNo: 2: SeqNo: 6: %REC 89.1	71.8 80 PA Method 2145 51985 LowLimit	132 120 <b>8015D: Gasc</b> Units: <b>mg/K</b> HighLimit	0.715 0 vline Rang Kg %RPD	20 0 <b>e</b> RPDLimit	
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	MB-16070 PBS 10/23/2014 ge Organics (GRO)	SampT Batch Analysis D Result ND 890 SampT	Type: ME 10: 16: 16: 10: 10: 10: 10: 10: 10: 10: 10: 10: 10	948.8 BLK 070 0/26/2014 SPK value 1000	Tes R S SPK Ref Val Tes	118 106 Code: EF SunNo: 2: SeqNo: 6: %REC 89.1	71.8 80 PA Method 2145 51985 LowLimit 80	132 120 8015D: Gaso Units: mg/k HighLimit	0.715 0 vline Rang Kg %RPD	20 0 <b>e</b> RPDLimit	
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	MB-16070 PBS 10/23/2014 ge Organics (GRO) LCS-16070 LCSS	SampT Batch Analysis D Result ND 890 SampT	ype: ME a ID: 16 bate: 10 FQL 5.0  ype: LC n ID: 16	948.8  BLK  070  0/26/2014  SPK value  1000  SS  070	Tes F S SPK Ref Val Tes F	118 106 Code: EF SunNo: 2: GeqNo: 6: %REC 89.1	71.8 80 PA Method 2145 51985 LowLimit 80 PA Method 2145	132 120 8015D: Gaso Units: mg/k HighLimit	0.715 0 Sline Rang %RPD	20 0 <b>e</b> RPDLimit	

#### 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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

Sample ID LCS-16070

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Surr: BFB

Batch ID: 16070

PQL

5.0

RunNo: 22145

Prep Date: 10/23/2014

Analysis Date: 10/26/2014

SeqNo: 651986

Units: mg/Kg

HighLimit

Analyte Gasoline Range Organics (GRO) Result 28 970

25.00 1000

SPK value SPK Ref Val

0

%REC 113 96.6

65.8 80

LowLimit

139 120 %RPD

**RPDLimit** 

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits S

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit Page 32 of 34

P Sample pH greater than 2.

RLReporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1410B12 30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

SampT	ype: ME	BLK	Tes	Code: El	PA Method	8021B: Volat	tiles		
Batch	ı ID: <b>16</b> 0	069	F	lunNo: 2	2140				
Analysis D	)ate: 10	)/25/2014	S	eqNo: 6	51605	Units: mg/K	(g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.050				-				
ND	0.050								
ND	0.050								
ND	0.10								
1.0		1.000		101	80	120			
SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		<u> </u>
Batch	n ID: <b>16</b> 0	069	F	lunNo: 2	2140				
Analysis D	)ate: 10	0/25/2014	S	eqNo: 6	51606	Units: mg/K	(g		
Result	PQI	SPK value	SPK Ref Val	%RFC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1 100011		0		, v v		-			
0.92	0.050	1.000	0	92.2	80	120	<del></del>		
							<u>,, , , , , , , , , , , , , , , , , , ,</u>		
0.92	0.050	1.000	0	92.2	80	120	<u>,</u>		
0.92 0.94	0.050 0.050	1.000 1.000	0	92.2 93.7	80 80	120 120	, ···	i di	
	Batch Analysis D Result ND ND ND ND 1.0 SampT Batch Analysis D	Batch ID: 16  Analysis Date: 10  Result PQL  ND 0.050  ND 0.050  ND 0.050  ND 0.10  1.0  SampType: LC  Batch ID: 16  Analysis Date: 10	ND 0.050 ND 0.050 ND 0.050 ND 0.10 1.0 1.000  SampType: LCS Batch ID: 16069  Analysis Date: 10/25/2014	Batch ID: 16069       R         Analysis Date:       10/25/2014       S         Result       PQL       SPK value       SPK Ref Val         ND       0.050       ND       0.050         ND       0.050       ND       0.10         1.0       1.000       1.000     SampType: LCS  Batch ID: 16069  Analysis Date: 10/25/2014	Batch ID: 16069       RunNo: 2         Analysis Date:       10/25/2014       SeqNo: 6         Result       PQL       SPK value       SPK Ref Val       %REC         ND       0.050       ND       0.050         ND       0.050       ND       0.10         1.0       1.000       101         SampType: LCS       TestCode: El         Batch ID:       16069       RunNo: 2         Analysis Date:       10/25/2014       SeqNo: 6	Batch ID: 16069       RunNo: 22140         Analysis Date:       10/25/2014       SeqNo: 651605         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         ND       0.050       ND       0.050         ND       0.050       101       80         SampType: LCS       TestCode: EPA Method         Batch ID:       16069       RunNo:       22140         Analysis Date:       10/25/2014       SeqNo:       651606	Batch ID: 16069       RunNo: 22140         Analysis Date:       10/25/2014       SeqNo: 651605       Units: mg/M         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         ND       0.050       ND       0.050         ND       0.050       ND       0.10         1.0       1.000       101       80       120         SampType: LCS       TestCode: EPA Method 8021B: Volation Batch ID: 16069         RunNo: 22140       Analysis Date: 10/25/2014       SeqNo: 651606       Units: mg/M	Batch ID: 16069       RunNo: 22140         Analysis Date:       10/25/2014       SeqNo: 651605       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         ND       0.050       ND       0.050         ND       0.050       ND       0.10         1.0       1.000       101       80       120         SampType: LCS       TestCode: EPA Method 8021B: Volatiles         Batch ID: 16069       RunNo: 22140         Analysis Date: 10/25/2014       SeqNo: 651606       Units: mg/Kg	Batch ID: 16069       RunNo: 22140         Analysis Date:       10/25/2014       SeqNo: 651605       Units: mg/Kg         Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit         ND 0.050 ND 0.050 ND 0.050 ND 0.10 1.00 1.00 1.00 1.00 1.00 1.00 1.0

Sample ID 1410B12-001AMS	SampT	SampType: MS TestCode: EPA Metho						tiles		
Client ID: SR-1	Batch	ID: <b>16</b>	069	F	RunNo: 2	2140				
Prep Date: 10/23/2014	Analysis D	ate: 10	)/25/2014	S	SeqNo: 6	51608	Units: mg/F			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.046	0.9242	0	92.8	77.4	142		=	
Toluene	0.87	0.046	0.9242	0	93.9	77	132			
Ethylbenzene	0.92	0.046	0.9242	0	100	77.6	134			
Xylenes, Total	2.7	0.092	2.773	0	99.1	77.4	132			
Surr: 4-Bromofluorobenzene	0.95		0.9242		103	80	120			

Sample ID 1410B12-001AM	SD SampT	уре: <b>М</b> S	SD	Tes							
Client ID: SR-1	Batch	ID: <b>16</b> 0	069	F	RunNo: 2	2140					
Prep Date: 10/23/2014	Analysis D	ate: 10	)/25/2014	S	SeqNo: 6	51609	ζg	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.046	0.9251	0	97.1	77.4	142	4.58	20		
Toluene	0.91	0.046	0.9251	0	98.2	77	132	4.62	20		
Ethylbenzene	0.96	0.046	0.9251	0	103	77.6	134	3.31	20		
Xylenes, Total	2.8	0.093	2.775	0	102	77.4	132	3.12	20		
Surr: 4-Bromofluorobenzene	0.98		0.9251		106	80	120	0	0		

## 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

Page 33 of 34

- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1410B12

30-Oct-14

Client:

APEX AZTEC

Project:

Blanco Vent Tank

•	•					8021B: Vola	tiles		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND	0.050								
ND	0.050								
ND	0.050								
ND	0.10								
0.91		1.000		91.1	80	120			
	Batc Analysis I Result ND ND ND ND	Batch ID: 16 Analysis Date: 10 Result PQL ND 0.050 ND 0.050 ND 0.050 ND 0.050 ND 0.10	Result         PQL         SPK value           ND         0.050           ND         0.050           ND         0.050           ND         0.10	Batch ID: 16070 F Analysis Date: 10/26/2014 S  Result PQL SPK value SPK Ref Val  ND 0.050  ND 0.050  ND 0.050  ND 0.050  ND 0.10	Batch ID: 16070       RunNo: 2         Analysis Date:       10/26/2014       SeqNo: 6         Result       PQL       SPK value       SPK Ref Val       %REC         ND       0.050         ND       0.050         ND       0.050         ND       0.10	Batch ID: 16070       RunNo: 22145         Analysis Date:       10/26/2014       SeqNo: 652011         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         ND       0.050         ND       0.050         ND       0.050         ND       0.050         ND       0.050         ND       0.10	Batch ID: 16070       RunNo: 22145         Analysis Date:       10/26/2014       SeqNo: 652011       Units: mg/k         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit         ND       0.050         ND       0.050         ND       0.050         ND       0.10	Batch ID: 16070       RunNo: 22145         Analysis Date: 10/26/2014       SeqNo: 652011       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         ND       0.050         ND       0.050         ND       0.050         ND       0.050         ND       0.10	Batch ID: 16070       RunNo: 22145         Analysis Date: 10/26/2014       SeqNo: 652011       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         ND       0.050         ND       0.050         ND       0.050         ND       0.010

Sample ID LCS-16070	Samp	Гуре: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batc	2145														
Prep Date: 10/23/2014	Analysis [	Date: 10	0/26/2014	9	SeqNo: 6	52012	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	97.2	80	120									
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120									
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120									
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	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

Page 34 of 34

- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name:	APEX AZTE	C	Work O	rder Numbe	er: 1410E	312			RcptNo	: 1
Received by/dat	le:	T	10/23/	14					-	
Logged By:	Anne Thor	10	10/23/201	4 7:30:00 A	M		anne s	A-	_	
Completed By:	Anne Thorr	ne .	10/23/201	4			Anne 's Anne 's	1.	_	
Reviewed By:	C	S	10/23	lul				,,		
Chain of Cus	tody			1 ' -						
1. Custody sea	als intact on sa	mple bottles?			Yes		No		Not Present	
2. Is Chain of C	Custody compl	ete?			Yes	$\checkmark$	No. l		Not Present	
3. How was the	e sample deliv	ered?			Cour	<u>ier</u>				
<u>Log In</u>										
4. Was an atte	empt made to	cool the sample	es?		Yes	<b>✓</b>	No		NA 🗆	1
5. Were all san	mples received	at a temperati	ure of >0°C t	o 6.0°C	Yes	<b>✓</b>	No [		NA $\Box$	
6. Sample(s) ii	n proper conta	iner(s)?			Yes	V	No			
7. Sufficient sa	imple volume (	or indicated tes	st(s)?		Yes	<b>Y</b>	No			
8. Are samples	except VOA	and ONG) prop	erly preserve	:d?	Yes	$\checkmark$	No			
9. Was presen	vative added to	bottles?			Yes		, No	✓	NA 🗌	
10.VOA vials ha	ave zero head:	space?			Yes		No !		No VOA Viais	
11, Were any sa	ample contain	ers received bro	oken?		Yes		No	✓	# of preserved	
40 -									bottles checked	
12. Does papers (Note discre		ttle labels? ain of custody)			Yes		No	ш	for pH:	or >12 unless noted)
13. Are matrices			of Custody?		Yes	$\checkmark$	No		Adjusted?	·
14. Is it clear wh	nat analyses w	ere requested?			Yes	$\checkmark$	No			
15. Were all hole (If no, notify	ding times able				Yes		No		Checked by:	
	419 /96	. # 6: 4 - 1								
Special Hand										
16. Was client n	notified of all di	screpancies wi	th this order?		Yes		No		NA 🗹	$\neg$
	n Notified:	and property of the second		Date						
By Wi				Via:	eMe	il 📗	Phone 🔙	Fax	In Person	
Regar	- 1	and the second of the second of the second	the second se	the common to make with	e facilità camp de case		5.0 .0 .0 .0 .0		and the second second of the second s	
	Instructions:		<u>er</u> maarmane ee	• • • • • • •						
17. Additional r										
18. Cooler Info		Condition	Seal Intact	Seal No.	Seal Da	<sub>sta</sub> √l⊹	Signed B	;	1	
Cooler N	lo Temp °C 2.0	1	Yes	Seal NO.	OCAL DE		algned b	<b>y</b>		
L		•							1	

											_								_	C	<u> /IAIN</u>	1 OF	CUSTODY RECO	35
,	-0		•											A۱	IALYS	sis /	7	$\overline{}$	7	/	7 7		Lab use only	
						Laboratory: Hall Environmental								RE	QUE	STED			/ /	' /		//	Due Date:	
Α	PEX					Address: Albuqueque, NM												/ /			/ /	/ /		_
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5	10/22/14	0930			SR-1							1		x	X						14	10	B12 - col	
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Matrix Contai		V - Wastewa A - 40 ml via			W - Water S A/G - Amber / Or	S - Soll SD - Sol r Glass 1 Liter		- Liquio 250 ml -	d A Glass w	- Air Ba vide mo				rcoal t astic c	ube or other	SL - sludg	je	0-0	Dil					_

APEX Office Location Aztec NM  Contact: Andy Free man Phone: Phone: Phone: Phone: Phone: Project Manager Kyle Symmonus Sampler's Signature  Kyle Symmonus Sampler's Signature  Kyle Symmonus S  Poly No.  Signature Name  Resolved Free man  Notifice of containers  Analysis  Requested  Address: Albaqueeque, MM  Thome: Phone: Phone: Phone: Phone: Phone: Phone: Phone: Phone: Phone: Project Manager Kyle Symmonus S  Sampler's Signature  Notifice of containers  Analysis  Requested  The Symmonus S  Page 2 or 3  Lab Sumpler of Containers  The Symmonus S  Poly No.  Signature S  Notifice Location Aztec Num  Page 2 or 3  Requested  The Symmonus S  Page 2 or 3  Lab Sumple 10 (Lab Use Only)  Lab Sumple 1																					CHAIN OF CUSTODY RECO	<u> </u>
APEX Office Location Az+ec, NM  Contact: Andy Freeman Phone:  Project Manager Kie Summas Sampler's Signature  Sampler's Name Sampler's Signature  Kyle Summer Sampler Signature  Kyle Summer Sa			<u>-</u>				l aboraton/	1-+	all 8	Envir	onm	unte	<b>ય</b>				,	//			/ / Due Date:	
Office Location Aztec, NVM  Contact: Andy Freeman  Phone:	Δ	ンドス					_											(		/ /		
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Matrix WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil		ww	V - Wastewa	ler		W - Water S A/G - Amber / Or	S - Soil SD - So	lid L			- Air Ba					tube or other	SL - sludge	(	O - Oil			

			CHAIN OF CUSTODY RECORD
		•	ANALYSIS / / / / / Lab use only
	15 00 -		REQUESTED / / / Due Date:
ADEV	Laboratory: Hall E		-   IEGOZOTZE
APEX	Address: Albuquer	que, NM	Temp. of coolers
Office Location Az-Xxx , N.M.			when received (C°):
	Contact: Andy Fre	uman	
	Phone:		Page 3 of 3
Project Manager Kyle Summers	PO/SO#: Dinct B	III to Enterprise	
Sampler's Name	Sampler's Signature		
Kyle Summers			
Proj. No. Project Name		No/Type of Containers	
70304116018 Blanco Vent	Tarik	4-02	AT 18K3/114
Matrix Date Time O G   I   Identifying Ma	O Start O Popth Cophib	VOA VOA 11t. 250 ml Glass Jar Jar P/O	Page 3 of 3  Page 10 (Lab Use Only)
	S G W G		Lab Sample ID (Lab Use Only)
5 10/22/14 1135 SK-21			X x 1410B12-022
5 10/22/14 1140 SR-22		1	× x -022 -023
S 10/22/14 1150 SR-23		1	x y -023 -024
S 10/22/14 1155 SR-24		1	x x -024 -025
S 10/22/14 1205 54-25		1	× × -025 -024
S 10/22/N 1215 SK-26		1	x x -026 -027
S 10/22/14 1220 52-27		1	x x -027 -028
5 10/22/14 1225 SK-28			7 -029 -029
10/2017			
NF			
Turn around time SNormal □25% Rush			
	Time: Received by: (Signa		Time: NOTES: Direct bill to Enterprise Field Services
	Time: Beceived by: (Signa	1642 Attn. Tom Long	
Allatter M. Works 10/12/M 19	825 Villettii la	1 1825	
Relinguished by (Signature) Date:	Time: / Received by: (Signs	Time: / 6730	
Relinquished by (Signature)  Date:	Time: Received by: (Signa	/ 0/30 Time:	
Training of (oignater)			
Matrix WW - Wastewater W - Water Container VOA - 40 ml vial A/G - Amber / 0			harcoal tube SL - sludge O - Oli Plastic or other

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204