

**3R-1026**

**Release Report/ General  
Correspondence**

**Soil C-141 & Work plan  
Gallegos #2**

**Date: 2015**

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

State of New Mexico  
Energy Minerals and Natural Resources

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

RECEIVED

Form C-141  
Revised August 8, 2011

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

Release Notification and Corrective Action

NMOCD  
DISTRICT III

OPERATOR ☐ Initial Report ☒ Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Gallegos #2	Facility Type: Natural Gas Gathering Line

Surface Owner: Navajo Tribal	Mineral Owner: Navajo Tribal	API No.
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LOCATION OF RELEASE

Unit Letter H	Section 29	Township 26N	Range 1W	Feet from the 2206	North/South Line	Feet from the 885	East/West Line	County San Juan
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Latitude 36.46020 Longitude -108.02147

NATURE OF RELEASE

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release 19.84 MCF Gas; 5-10 bbls fluids	Volume Recovered: None
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 9/24/2014 @ 8:00 a.m.	Date and Hour of Discovery: 9/24/2014 10:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD - Cory Smith and Steve Austin - NNEPA	
By Whom? Thomas Long	Date and Hour September 24, 2014 at 3:20 p.m.	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse: No visible surface impacts and no fluids released.	

If a Watercourse was Impacted, Describe Fully.\* The release is located within the flood plain of the Gallegos Wash. No visible surface impacts and no fluids released to the surface.

Describe Cause of Problem and Remedial Action: On September 24, 2014, an Enterprise technician suspected a possible pipeline leak during the pigging operations on the Gallegos #2 pipeline. Area technicians depressurized, locked out and tagged out the pipeline. Repairs and soil remediation was completed on October 29, 2014. Approximately 568 cubic yards of hydrocarbon affected soils were removed from the site during corrective action and approximately 585 barrels of groundwater were removed from the excavation during dewatering activities. Confirmation samples collected from the soils remaining in place did not exhibit constituent of concern (COC) concentrations above New Mexico Energy, Minerals, and Natural Resources Department (ENMRD) Oil Conservation Division (OCD) Remediation Action Levels. However, dissolved-phase COC concentrations exceeding applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards were exhibited by disturbed water sampled collected from the open excavation.

Describe Area Affected and Cleanup Action Taken: On September 24, 2014, an Enterprise technician suspected a possible pipeline leak during the pigging operations on the Gallegos #2 pipeline. Area technicians depressurized, locked out and tagged out the pipeline. Repairs and soil remediation was completed on October 29, 2014. Approximately 568 cubic yards of hydrocarbon affected soils were removed from the site during corrective action and approximately 585 barrels of groundwater were removed from the excavation during dewatering activities. Confirmation samples collected from the soils remaining in place did not exhibit constituent of concern (COC) concentrations above New Mexico Energy, Minerals, and Natural Resources Department (ENMRD) Oil Conservation Division (OCD) Remediation Action Levels. However, dissolved-phase COC concentrations exceeding applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards were exhibited by disturbed water sampled collected from the open excavation. A third party corrective action report and work plan is included with this Final C-141.

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

Signature: <i>Jon Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: Director, Environmental	Approval Date: 5/8/15	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval: <i>Ground water Impacts Confirmed 3R-1026 Assigned</i>	Attached <input type="checkbox"/>
Date: 1-12-2015	Phone: (713)381-6684	

Attach Additional Sheets If Necessary

Submit work/Remediation plan  
To Santa Fe For Gw Remediation  
Gw work plan must be approved by Santa Fe  
#NCS 1431742228

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**CORRECTIVE ACTION REPORT AND SITE INVESTIGATION WORK PLAN**

Property:

**Gallegos #2 Well Tie Pipeline Release (9/18/2014)  
NE 1/4, S29 T26N R11W  
San Juan County, New Mexico**

December 2, 2014  
Apex Project No. 7030414G035

Prepared for:

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

Prepared by:

A handwritten signature in blue ink that reads 'Heather M. Woods'.

Heather M. Woods, P.G.  
Senior Project Manager

A handwritten signature in blue ink that reads 'Elizabeth Scaggs'.

Elizabeth Scaggs, P.G.  
Senior Program Manager

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## **CORRECTIVE ACTION REPORT AND SITE INVESTIGATION WORK PLAN**

### **Gallegos #2 Well Tie Pipeline Release (9/18/2014)**

NE 1/4, S29 T26N R11W  
San Juan County, New Mexico

**Apex Project No. 7030414G035**

## **1.0 INTRODUCTION**

### **1.1 Site Description & Background**

The Gallegos #2 Well Tie Pipeline Release (9/18/2014) site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 29 in Township 26 North, Range 11 West in rural San Juan County, New Mexico (36.46020N 108.02147W), referred to hereinafter as the "Site" or "subject Site". The Site is located on Navajo Nation allotted land, and consists of native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately southwest to northeast.

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak, which was discovered on September 18, 2014. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release.

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

### **1.2 Project Objective**

The primary objective of the corrective actions was to reduce 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* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

## **2.0 SITE RANKING**

The site is under the jurisdiction of the Navajo Nation Environmental Protection Agency (NNEPA) and the New Mexico ENMRD OCD. Site activities were performed in accordance with the ENMRD OCD *Guidelines for Remediation of Leaks, Spills and Releases*, in addition to the OCD rules, specifically NMAC 19.15.29 *Remediation Plan*. This guidance establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during completion of corrective action activities and information available from the New Mexico Office of the State Engineer (OSE) to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	20
	200 to 1,000 feet	10	
	>1,000 feet	0	
<b>Total Ranking Score</b>			<b>40</b>

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "40". This ranking is based on the following:

- Groundwater was observed in the pipeline repair excavation at approximately 2.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater. No water wells were identified on the OSE website database within one mile of the Site.
- No water sources or wellheads were identified within 1,000 feet of the Site, resulting in a ranking of "0" for proximity to a wellhead protection area.
- The Site is located adjacent to the active channel of the Gallegos Wash, resulting in a ranking of "20" for distance to surface water

### 3.0 RESPONSE ACTIONS

#### 3.1 Soil Excavation Activities

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers and Heather Woods, Apex environmental professionals, provided environmental support.

Confirmation soil samples were collected over the course of several days, as different areas of the excavation became accessible during soil removal and dewatering activities. Confirmation samples C-1 through C-15 were collected from the floors and sidewalls of the excavation to evaluate soils remaining in place. Subsequent analytical results indicated that a portion of the west sidewall still exhibited evidence of hydrocarbon impact (sample C-8). This sidewall was over-excavated on October 14, 2014, and resampled (confirmation sample C-16) to verify the removal of hydrocarbon affected soils.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands with variable amounts of silt and clay.

The final excavation measured approximately 380 feet long with variable width and depth, typically six (6) feet wide and four (4) to six (6) feet bgs in depth. The majority of this excavation

was created to proactively replace sections of pipeline that exhibited signs of internal corrosion. The portion of the excavated area affected by the hydrocarbon release measured approximately 41 feet long by 30 feet wide and 8 to 10 feet bgs in depth.

A total of approximately 568 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, approximately 585 barrels (bbls) of water were removed from the excavation during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The executed C-138 forms are provided in Appendix B. Composite samples (SP-1 through SP-12) were collected from the remaining soil stockpiles associated with the northern (unaffected) portion of the excavation at an approximate 20 cubic yard sample interval (as requested by the NMOCD) to verify the potential for reuse as backfill material. Subsequent to the laboratory verification that the remaining stockpiled soils were not affected, the excavation was backfilled with clean, imported fill and soils from the remaining unaffected stockpiles.

Figure 3 is a site map that indicates the approximate location of the final excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

### **3.2 Soil and Water Sampling Program**

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 electron volt (eV) lamp to aid in determining the excavation limits.

Apex's soil sampling program included the collection of sixteen (16) confirmation samples (C-1 through C-16) from the resulting excavation for laboratory analysis. Additionally, twelve (12) composite samples (SP-1 through SP-12) were collected from the remaining unaffected stockpiled soils to determine the potential to reuse these soils as excavation backfill. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample (EW-1) was collected from the open excavation and submitted for laboratory analysis, to evaluate potential groundwater impact at the Site.

The confirmation soil and water samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in coolers, which were secured with custody seals. The sample coolers and completed chain-of-custody form were relinquished to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for analysis.

### **3.3 Laboratory Analytical Methods**

The confirmation and stockpile soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015. Additionally, at the request of the NMOCD, the stockpile composite samples were analyzed for chloride using EPA Method 300.0.

The excavation water sample was analyzed for BTEX using EPA SW-846 #8021, anions using EPA Method 300.0, and cations using EPA Method 200.7.

Laboratory results are summarized in Tables 1A, 1B, and 2A through 2C, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.



## 4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA. Due to the absence of published NNEPA regulatory guidance with respect to unrefined oil and gas releases, Apex referred to the New Mexico EMNRD OCD guidance and rules. 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.

### 4.1 Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation and stockpile samples for soils remaining at the Site to the OCD *Remediation Action Levels* for sites having a total ranking score of "40". Soils associated with confirmation sample C-8 were removed by over-excavation and are not included in the following discussion.

- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate benzene concentrations ranging from below laboratory reporting limits to 0.33 milligrams per kilogram (mg/kg), which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate total BTEX concentrations ranging from below laboratory reporting limits to 6.7 mg/kg, which are below the OCD *Remediation Action Level*.
- The laboratory analyses of the confirmation samples collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory reporting limits to 74 mg/Kg, which are below the OCD *Remediation Action Level*.

The laboratory analyses of the stockpile samples identified chloride concentrations ranging from 4.6 mg/kg to 12 mg/kg. Chloride does not have an established OCD *Remediation Action Level*. Confirmation sample results are provided in Tables 1A and 1B in Appendix D.

### 4.2 Water Sample

Apex compared the BTEX constituent concentrations or reporting limits (RLs) associated with the excavation water sample collected from the main excavation area to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analyses of the excavation water sample (EW-1) indicates a benzene concentration of 1,400 micrograms per liter (µg/L), which is above the WQCC GQS of 10 µg/L.
- The laboratory analyses of EW-1 indicates a toluene concentration of 6,300 µg/L, which is above the WQCC GQS of 750 µg/L.
- The laboratory analyses of EW-1 indicates an ethylbenzene concentration of 870 µg/L, which is above the WQCC GQS of 750 µg/L.
- The laboratory analyses of EW-1 indicates a total xylenes concentration of 11,000 µg/L, which above the WQCC GQS of 620 µg/L.

In addition to the analysis for BTEX, the NMOCD requested that the excavation water sample be analyzed for anions/cations.

- The laboratory analyses of EW-1 indicates fluoride, nitrogen (nitrate), and sulfate concentrations below the laboratory reporting limits, which are below the WQCC GQS of 1.6 milligrams per liter (mg/L) fluoride, 10.0 mg/L nitrogen (nitrate), and 600 mg/L sulfate. Laboratory analyses of EW-1 also indicates nitrogen (nitrite), bromide, and phosphorus (orthophosphate) concentrations below the laboratory reporting limits, for which no WQCC GQSs have been established. The laboratory analyses of EW indicates a chloride concentration of 94 mg/L, which is below the WQCC GQS of 250 mg/L for domestic water supplies.
- Laboratory analyses of EW-1 also identified cation concentrations of 100 mg/L calcium, 34 mg/L magnesium, 22 mg/L potassium, and 580 mg/L sodium. No WQCC GQSs have been established for these cations.

Sample results are provided in Tables 2A through 2C in Appendix D.

It should be noted that due to the "mixing/blending" nature of excavation activities, as well as the characteristics of the native media comprising the local aquifer and vadose zone, open excavation water sample analyses are sometimes not indicative of the actual groundwater constituent concentrations in the area.

## 5.0 FINDINGS AND RECOMMENDATIONS

The Gallegos #2 Well Tie Pipeline Release (9/18/2014) site is located within the Enterprise pipeline ROW in the NE  $\frac{1}{4}$  of Section 29 in Township 26 North, Range 11 West in rural San Juan County, New Mexico (36.46020N 108.02147W). The Site is located on Navajo Nation allotted land, and consists of native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately southwest to northeast.

On October 7, 2014, Enterprise initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. Three leaks were subsequently identified and repaired along a 40 foot length of the pipeline. Unknown quantities of natural gas and pipeline liquids were released from the pipeline as a result of leaks caused by internal corrosion. The leaks were identified by the detection of natural gas at the ground surface during a vapor survey. No other surface expression was observed in the vicinity of the release.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The final excavation measured approximately 380 feet long with variable width and depth, typically 6 feet wide and 4 to 6 feet bgs in depth. The majority of this excavation was created to proactively replace sections of pipeline that exhibited signs of internal corrosion. The portion of the excavated area affected by the hydrocarbon release measured approximately 41 feet long by 30 feet wide and 8 to 10 feet bgs in depth.
- Groundwater was encountered during the corrective action excavation activities. A water sample was collected from the open excavation and submitted for laboratory analyses.



- The laboratory analysis of the excavation water sample indicates a benzene concentration of 1,400 µg/L, which exceeds the WQCC GQS of 10 µg/L.
- The laboratory analysis of the excavation water sample indicates a toluene concentration of 6,300 µg/L, which exceeds the WQCC GQS of 750 µg/L.
- The laboratory analysis of the excavation water sample indicates an ethylbenzene concentration of 870 µg/L, which exceeds the WQCC GQS of 750 µg/L.
- The laboratory analysis of the excavation water sample indicates a total xylene concentration of 11,000 µg/L, which exceeds the WQCC GQS of 620 µg/L.
- Prior to backfilling, final confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD *Remediation Action Levels* for a Site ranking of "40".
- A total of approximately 568 cubic yards of hydrocarbon affected soils were transported to the Envirotech Landfarm near Hilltop, New Mexico for disposal/remediation. Additionally, approximately 585 barrels (bbls) were removed from the excavation during dewatering activities and transported to the Basin Disposal, Inc. facility in Bloomfield, New Mexico for disposal. The excavation was backfilled with clean imported fill and stockpiled soils not impacted by COCs above applicable OCD *Remediation Action Levels* based on laboratory analytical results. The area was then contoured to the surrounding grade.

**Based on the laboratory analytical, no further action appears warranted regarding soil impact at the Site, however, groundwater may be affected by the petroleum hydrocarbon release.**

## **6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE**

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

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

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is

prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

## **7.0 SITE INVESTIGATION WORK PLAN**

### **7.1 Objective**

The primary objective of the proposed site investigation is to evaluate potential COC concentrations in groundwater with respect to the WQCC *Groundwater Quality Standards*.

The scope of work at the Site will include the advancement of eight (8) soil borings which will be completed as temporary monitoring wells. The borings will be advanced to a depth of approximately ten (10) feet bgs, three to four feet below the initial groundwater table elevation, or equipment refusal, whichever is more shallow, to evaluate the presence, magnitude and/or extent of dissolved-phase COCs.

### **7.2 Health and Safety Plan**

Apex will develop a site specific Health and Safety Plan (HSP) for the performance of the corrective actions described herein. For the purposes of the HSP, it is assumed that the COCs include petroleum hydrocarbons. It is assumed that the scope of services can be conducted under modified Level D personal protective equipment (PPE), which will include a hard hat, steel-toed boots, protective eyewear, and gloves. Should the need arise to upgrade PPE (e.g. respiratory protection), the client will be notified, and the HSP will be modified accordingly.

Apex will ensure that utilities are cleared through the New Mexico One Call System and will coordinate with the utility companies as necessary to ensure the safe completion of site activities.

### **7.3 Soil Boring Installation**

Eight (8) soil borings will be advanced and completed as temporary monitoring wells utilizing a direct push Geoprobe® drilling rig. The soil borings will be placed in selected locations to further evaluate potential petroleum hydrocarbon soil and groundwater impacts. The soil borings will be advanced to a depth of approximately ten (10) feet bgs, three to four feet below the initial groundwater table elevation, or equipment refusal, whichever is more shallow. Figure 4 is a site map that indicates the approximate locations of the proposed temporary monitoring wells (Appendix A).

Non-disposable sampling and drilling equipment will be decontaminated using an Alconox® wash and potable water rinse prior to commencement of the project and between the advancement of each soil boring.

Soil samples will be collected continuously using core barrels or split spoon samplers to document lithology, color, relative moisture content and visual or olfactory evidence of impairment. In addition, the samples will be scanned with a PID for the presence of volatile organic compounds (VOCs).



#### **7.4 Temporary Monitoring Well Installation**

Subsequent to advancement, the soil borings will be completed as temporary groundwater monitoring wells to evaluate the initial groundwater-bearing unit. The temporary monitoring wells will be completed as follows:

- Temporary installation of 5 to 10 feet of 1-inch diameter, machine slotted schedule 40 PVC well screen assembly with a threaded bottom plug;
- Installation of schedule 40 riser pipe to surface; and
- Graded silica sand for annular sand pack around the well screen from the bottom of the well to one foot above the groundwater level, if needed.

The temporary monitoring wells will be developed by surging and removing groundwater until the fluid appears relatively free of fine-grained sediment. Groundwater samples will be collected following development and monitoring well recovery utilizing low-flow sampling techniques. The temporary wells will be removed upon the completion of sampling and the boreholes backfilled with bentonite to the surface.

#### **7.5 Soil Sampling Program**

Up to two (2) soil samples will be collected from each soil boring from one or more of the following locations:

- The depth interval exhibiting the highest concentration of VOCs based on PID evidence;
- An interval exhibiting visual/olfactory evidence of impairment;
- The capillary fringe zone;
- From a change in lithology; or
- From the bottom of the boring.

The soil samples will be collected in laboratory prepared glassware and placed on ice in a cooler, which will be secured with a custody seal. The samples will be transported to Hall along with a completed chain-of-custody form.

#### **7.6 Soil Laboratory Analytical Program**

Selected soil samples will be analyzed for TPH GRO/DRO utilizing EPA SW-846 Method 8015 and BTEX utilizing EPA SW-846 Method 8021.

A summary of the analysis, sample type, and EPA-approved methods is presented in the following table:

Analysis	Sample Type	No. of Samples	EPA Method
TPH GRO/DRO	Soil	8-16	SW-846 8015
BTEX	Soil	8-16	SW-846 8021

#### **7.7 Groundwater Sampling Program**

Prior to sampling, fluid levels in each of the temporary monitoring wells will be gauged utilizing an interface probe capable of detecting non aqueous phase liquid (NAPL).



Apex will collect one (1) groundwater sample from each of the eight (8) temporary monitoring wells, utilizing low-flow sampling methods, to evaluate the potential magnitude and extent of COCs identified in association with the on-site groundwater.

Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. It does not necessarily refer to the flow rate of water discharged at the surface which can be affected by flow regulators or restrictions. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective is to pump in a manner that minimizes stress (drawdown) to the system to the extent practical taking into account established site sampling objectives. Flow rates on the order of 0.1 to 0.5 liters per minute (L/min) will be maintained during the sampling activities using dedicated sampling equipment.

The utilization of low-flow minimal drawdown techniques enables the isolation of the screened interval groundwater from the overlying stagnant casing water. The pump intake is placed within the screened interval such that the groundwater pumped is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone.

Disposable tubing will be utilized during the low-flow sampling activities and are typically discarded after a single use. In the event that tubing reuse was ever required, the tubing would be washed in the same manner as the pump itself, with an Alconox® soap solution and then rinsed with clean water prior to re-use.

The temporary monitoring wells will be purged until produced groundwater is consistent in color, clarity, pH, temperature and conductivity. The general goal for stabilization of the monitored groundwater parameters of pH, temperature, and conductivity is three (3) consecutive readings at five (5) minute intervals that demonstrate less than 10% variation.

The groundwater samples will be collected in laboratory prepared glassware and placed on ice in a cooler, which will be secured with a custody seal. The samples will be transported to Hall along with a completed chain-of-custody form.

### **7.8 Groundwater Laboratory Analytical Program**

The groundwater samples will be analyzed BTEX utilizing EPA SW-846 Method 8021.

A summary of the analysis, sample type, and EPA-approved methods is presented below:

<b>Analysis</b>	<b>Sample Type</b>	<b>No. of Samples</b>	<b>EPA Method</b>
<b>BTEX</b>	Groundwater	8	SW-846 8021

### **7.9 Plugging & Abandonment of Temporary Monitoring Wells**

The temporary monitoring wells will be plugged and abandoned by removing the casings and screens, and backfilling the boreholes with bentonite pellets. Water will be added to the plugged boreholes to hydrate the bentonite, sealing the annulus.

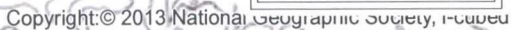
## **8.0 SITE INVESTIGATION REPORT**

Upon completion of the site investigation activities, a final report will be prepared that will include documentation of field activities, a site plan detailing pertinent site features, logs of subsurface exploration, laboratory analytical results, an evaluation of sampling results, and recommendations concerning further action.

## **9.0 PROJECT SCHEDULE**

The completion of the proposed site investigation activities will require an estimated two (2) days for temporary monitoring well installation and development, one (1) day to sample the monitoring wells, and one (1) day to plug and abandon the temporary monitoring wells.



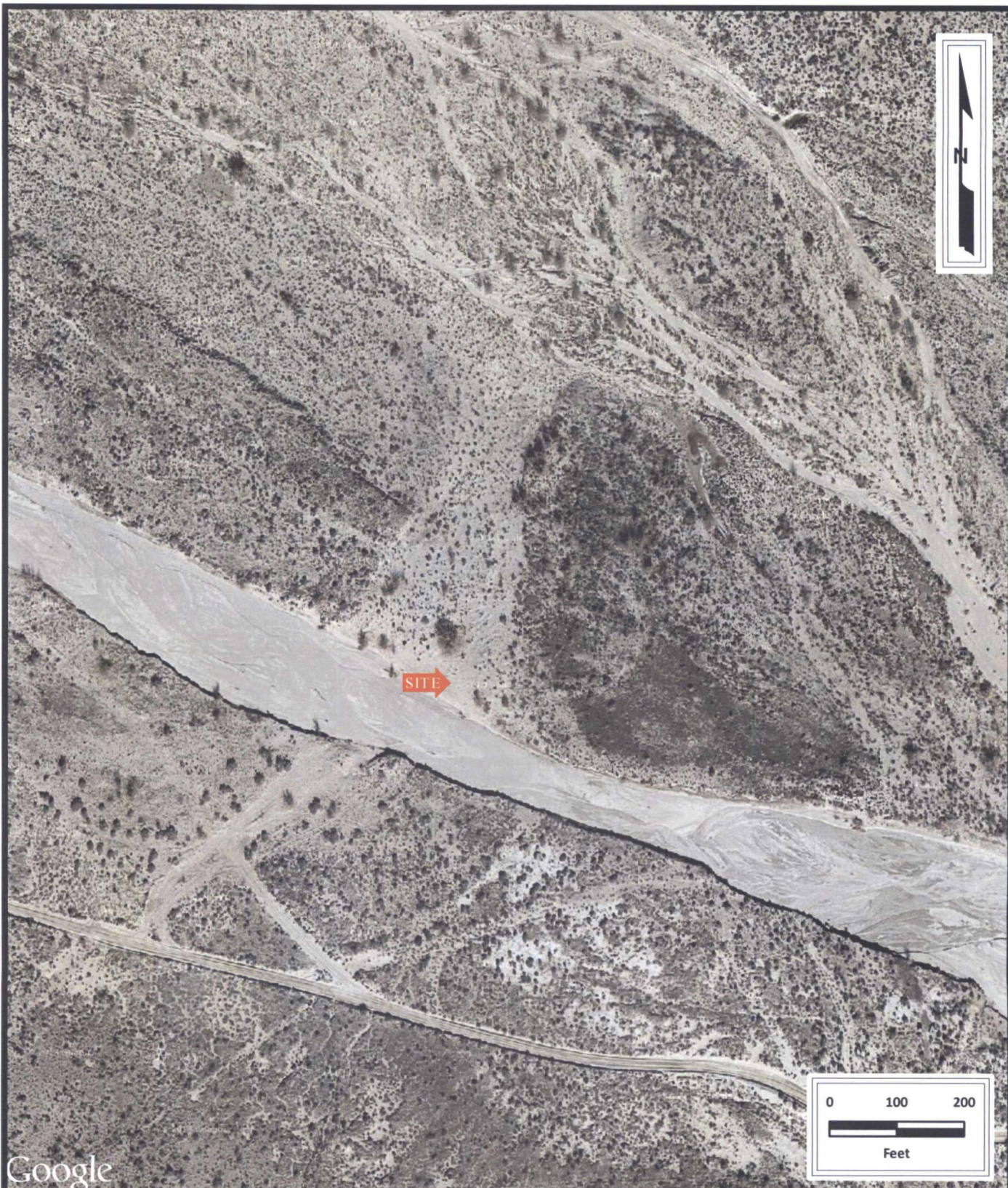


Apex Project # 7030414G035



**FIGURE 1**  
**Topographic Map**  
Carson Trading Post, NM Quad.  
1978





Google

**Gallegos #2 Well Tie**  
**Pipeline Release (9/18/2014)**  
 Rural San Juan County  
 36.46020N, 108.02147W  
 NE ¼ Sec 29 T26N R11W

Apex Project # 7030414G035



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

**FIGURE 2**  
**Site Vicinity Map**  
 November 2013 Aerial Photograph  
 Source: Google Earth



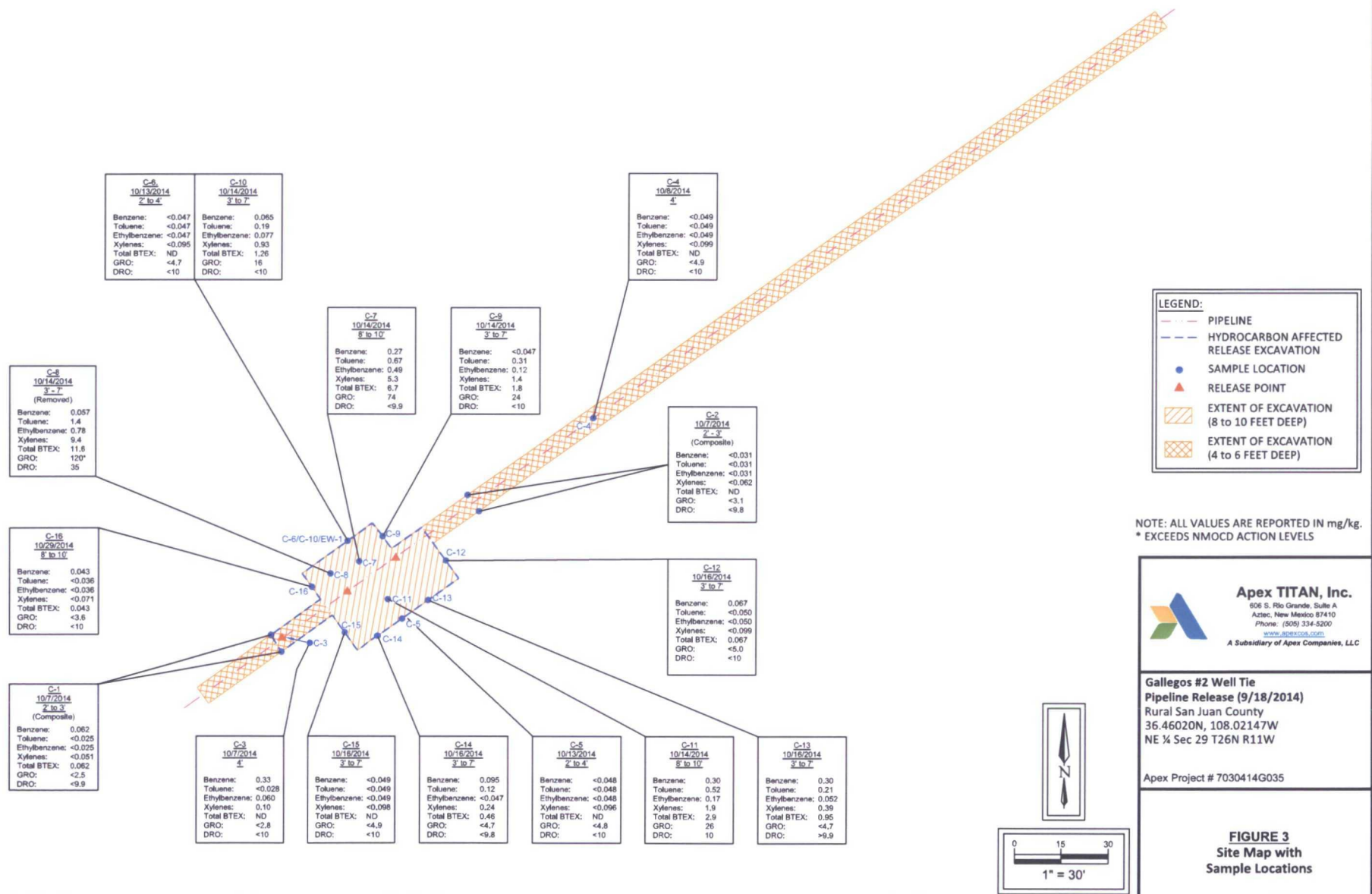


Figure 3.dwg



**Gallegos #2 Well Tie  
Pipeline Release (9/18/2014)**  
Rural San Juan County  
36.46020N, 108.02147W  
NE ¼ Sec 29 T26N R11W

Apex Project # 7030414G035



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**FIGURE 4**  
**Proposed Temporary  
Monitoring Well Locations**  
November 2013 Aerial Photograph  
Source: Google Earth



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

97057-0664  
Form C-138  
Revised 08/01/11  
\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

### REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:  
Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401

2. Originating Site: Gallegos #2 Well Tie

3. Location of Material (Street Address, City, State or ULSTR):  
Unit Letter H Section 29 T 26N R 11W; 36.46020, -108.02147, San Juan County, NM

4. Source and Description of Waste:  
Source: Natural Gas Pipeline Release  
Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.  
Estimated Volume 50 (yd<sup>3</sup>) Known Volume (to be entered by the operator at the end of the haul) 569 (yd<sup>3</sup>) bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby  
Generator Signature  
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988  
regulatory determination, the above described waste is: (Check the appropriate classification)

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, 10-7-14, representative for Enterprise Field Services, LLC. authorizes Envirotech, Inc. to complete  
Generator Signature  
the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: Various transporters on the OCD approved haulers list. Foutz + Bussan, Mass, Four States, Paul + Son  
OCD Permitted Surface Waste Management Facility  
Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility \* Permit #: NM 01-0011  
Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:  
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:  
☒ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Environmental Manager DATE: 10/14/14  
SIGNATURE: Greg Crabtree TELEPHONE NO.: 505-632-0615  
Surface Waste Management Facility Authorized Agent

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-138  
Revised 08/01/11

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

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

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

2. Originating Site: Gallegos #2 Well Tie

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

Unit Letter H Section 29 T 26N R 11W; 36.46020, -108.02147, San Juan County, NM

4. Source and Description of Waste:

Source: Natural Gas Pipeline Release

Description: Exempt petroleum affected soil from clean-up efforts at pipeline release.

Estimated Volume 100 yd<sup>3</sup> bbbs Known Volume (to be entered by the operator at the end of the haul) 585 yd<sup>3</sup> / bbbs

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Field Services, LLC do hereby

Generator Signature

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

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

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

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

### GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for 10-7-14, authorize Basin Disposal, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

I, \_\_\_\_\_, representative for \_\_\_\_\_ do hereby certify that

Representative/Agent Signature

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

5. Transporter: Various transporters on the OCD approved haulers list.

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Basin Disposal, Inc. \* Permit #: NM1-005

Address of Facility: 200 Montana Bloomfield, NM

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

☐ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Jim Volkerding

SIGNATURE: [Signature]

Surface Waste Management Facility Authorized Agent

TITLE: Gen Mgr / VS

TELEPHONE NO.: \_\_\_\_\_

505-632-8936

DATE: 4/24/17



### Photograph 1

View of the excavation facing north-east.



### Photograph 2

View of the hydrocarbon affected release excavation facing southwest.



### Photograph 3

View of the hydrocarbon affected release excavation facing east.





**Photograph 4**

View of the hydrocarbon affected release excavation facing northwest.



**TABLE 1A**  
**Gallegos #2 Well Tie Pipeline Release**  
**SOIL ANALYTICAL SUMMARY - EXCAVATION CONFIRMATION SAMPLES**

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 Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Sample Removed by Excavation									
C-8	10/14/2014	3 to 7	0.057	1.4	0.78	9.4	11.6	120	35
Excavation Confirmation Samples									
C-1	10/7/2014	2 to 3	0.062	<0.025	<0.025	<0.051	0.062	<2.5	<9.9
C-2	10/7/2014	2 to 3	<0.031	<0.031	<0.031	<0.062	ND	<3.1	<9.8
C-3	10/7/2014	4	0.33	<0.028	0.060	0.10	0.49	<2.8	<10
C-4	10/8/2014	4	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10
C-5	10/13/2014	2 to 4	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<10
C-6	10/13/2014	2 to 4	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10
C-7	10/14/2014	8 to 10	0.27	0.67	0.49	5.3	6.7	74	<9.9
C-9	10/14/2014	3 to 7	<0.047	0.31	0.12	1.4	1.8	24	<10
C-10	10/14/2014	3 to 7	0.065	0.19	0.077	0.93	1.26	16	<10
C-11	10/14/2014	8 to 10	0.30	0.52	0.17	1.9	2.9	26	10
C-12	10/16/2014	3 to 7	0.067	<0.050	<0.050	<0.099	0.067	<5.0	<10
C-13	10/16/2014	3 to 7	0.30	0.21	0.052	0.39	0.95	<4.7	<9.9
C-14	10/16/2014	3 to 7	0.095	0.12	<0.047	0.24	0.46	<4.7	<9.8
C-15	10/16/2014	3 to 7	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10
C-16	10/29/2014	8 to 10	0.043	<0.036	<0.036	<0.071	0.043	<3.6	<10

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

NE = Not Established

ND = Not Detected above Laboratory Reporting Limits

**TABLE 1B**  
**Gallegos #2 Well Tie Pipeline Release**  
**SOIL ANALYTICAL SUMMARY - STOCKPILE CONFIRMATION SAMPLES**

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)	Chloride (mg/kg)
New Mexico Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100		NE
Stockpile Confirmation Samples										
SP-1	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	12
SP-2	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<9.9	9.2
SP-3	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.9	11
SP-4	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.097	ND	<4.9	<10	10
SP-5	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10	11
SP-6	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.095	ND	<4.8	<9.9	7.2
SP-7	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.097	ND	<4.8	<10	12
SP-8	10/13/2014	Stockpile	<0.047	<0.047	<0.047	<0.094	ND	<4.7	<10	8.2
SP-9	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.8	5.5
SP-10	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<9.9	17
SP-11	10/13/2014	Stockpile	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<9.9	8.0
SP-12	10/13/2014	Stockpile	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	4.6

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

NE = Not Established

ND = Not Detected above Laboratory Reporting Limits



**TABLE 2A**  
**Gallegos #2 Well Tie Pipeline Release**  
**EXCAVATION WATER ANALYTICAL SUMMARY - BTEX**

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		10	750	750	620
Excavation Water Sample					
EW-1	10/16/2014	<b>1,400</b>	<b>6,300</b>	<b>870</b>	<b>11,000</b>

Note: Concentrations in **bold** and yellow exceed the applicable WQCC Groundwater Quality Standards

NE = Not Established

NA = Not Analyzed



**TABLE 2B**  
**Gallegos #2 Well Tie Pipeline Release**  
**EXCAVATION WATER ANALYTICAL SUMMARY - ANIONS**

Sample I.D.	Date	Fluoride (mg/L)	Chloride (mg/L)	Nitrogen, Nitrite (As N) (mg/L)	Bromide (mg/L)	Nitrogen, Nitrate (As N) (mg/L)	Phosphorus, Orthophosphate (As P) (mg/L)	Sulfate (mg/L)
New Mexico Water Quality Control Commision Groundwater Quality Standards		1.6	250*	NE	NE	10.0	NE	600*
Excavation Water Sample								
EW-1	10/16/2014	<0.50	94	<0.50	<0.50	<0.50	<2.5	<2.5

Note: Concentrations in **bold** and yellow exceed the applicable WQCC Groundwater Quality Standards

\*Standard for Domestic Water Supply

NE = Not Established

NA = Not Analyzed



**TABLE 2C**  
**Gallegos #2 Well Tie Pipeline Release**  
**EXCAVATION WATER ANALYTICAL SUMMARY - CATIONS**

Sample I.D.	Date	Calcium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Sodium (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		NE	NE	NE	NE
Excavation Water Sample					
EW-1	10/16/2014	100	34	22	580

Note: Concentrations in **bold** and yellow exceed the applicable WQCC Groundwater Quality Standards

NE = Not Established

NA = Not Analyzed





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

October 09, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410348

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/8/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410348

Date Reported: 10/9/2014

CLIENT: APEX AZTEC

Client Sample ID: C-1

Project: Enterprise Gallegos #2

Collection Date: 10/7/2014 1:40:00 PM

Lab ID: 1410348-001

Matrix: MEOH (SOIL)

Received Date: 10/8/2014 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/8/2014 9:31:09 AM	15769
Surr: DNOP	93.0	57.9-140		%REC	1	10/8/2014 9:31:09 AM	15769
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	2.5		mg/Kg	1	10/8/2014 10:35:49 AM	R21746
Surr: BFB	91.2	80-120		%REC	1	10/8/2014 10:35:49 AM	R21746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.062	0.025		mg/Kg	1	10/8/2014 10:35:49 AM	R21746
Toluene	ND	0.025		mg/Kg	1	10/8/2014 10:35:49 AM	R21746
Ethylbenzene	ND	0.025		mg/Kg	1	10/8/2014 10:35:49 AM	R21746
Xylenes, Total	ND	0.051		mg/Kg	1	10/8/2014 10:35:49 AM	R21746
Surr: 4-Bromofluorobenzene	95.1	80-120		%REC	1	10/8/2014 10:35:49 AM	R21746

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



**Analytical Report**Lab Order **1410348**Date Reported: **10/9/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** C-2**Project:** Enterprise Gallegos #2**Collection Date:** 10/7/2014 1:50:00 PM**Lab ID:** 1410348-002**Matrix:** MEOH (SOIL)**Received Date:** 10/8/2014 6:50:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2014 10:00:51 AM	15769
Surr: DNOP	93.6	57.9-140		%REC	1	10/8/2014 10:00:51 AM	15769
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Surr: BFB	90.7	80-120		%REC	1	10/8/2014 11:04:27 AM	R21746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.031		mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Toluene	ND	0.031		mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Ethylbenzene	ND	0.031		mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Xylenes, Total	ND	0.062		mg/Kg	1	10/8/2014 11:04:27 AM	R21746
Surr: 4-Bromofluorobenzene	93.6	80-120		%REC	1	10/8/2014 11:04:27 AM	R21746

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

## Analytical Report

Lab Order 1410348

Date Reported: 10/9/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: C-3

Project: Enterprise Gallegos #2

Collection Date: 10/7/2014 2:00:00 PM

Lab ID: 1410348-003

Matrix: MEOH (SOIL)

Received Date: 10/8/2014 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2014 9:47:50 AM	15769
Surr: DNOP	77.7	57.9-140		%REC	1	10/8/2014 9:47:50 AM	15769
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	10/8/2014 11:32:59 AM	R21746
Surr: BFB	91.6	80-120		%REC	1	10/8/2014 11:32:59 AM	R21746
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	0.33	0.028		mg/Kg	1	10/8/2014 11:32:59 AM	R21746
Toluene	ND	0.028		mg/Kg	1	10/8/2014 11:32:59 AM	R21746
Ethylbenzene	0.060	0.028		mg/Kg	1	10/8/2014 11:32:59 AM	R21746
Xylenes, Total	0.10	0.056		mg/Kg	1	10/8/2014 11:32:59 AM	R21746
Surr: 4-Bromofluorobenzene	94.5	80-120		%REC	1	10/8/2014 11:32:59 AM	R21746

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

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410348

09-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-15769	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	15769	RunNo	21735					
Prep Date	10/7/2014	Analysis Date	10/8/2014	SeqNo	638274	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.0		10.00		80.2	57.9	140			

Sample ID	LCS-15769	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	15769	RunNo	21735					
Prep Date	10/7/2014	Analysis Date	10/8/2014	SeqNo	638381	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	68.6	130			
Surr: DNOP	3.4		5.000		67.0	57.9	140			

Sample ID	MB-15738	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	15738	RunNo	21737					
Prep Date	10/6/2014	Analysis Date	10/8/2014	SeqNo	638953	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.2	57.9	140			

Sample ID	LCS-15738	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	15738	RunNo	21737					
Prep Date	10/6/2014	Analysis Date	10/8/2014	SeqNo	638954	Units	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.1	57.9	140			

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410348

09-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-15757 MK		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: R21746		RunNo: 21746					
Prep Date:			Analysis Date: 10/8/2014		SeqNo: 638774		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	80	120			

Sample ID	LCS-15757 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R21746		RunNo: 21746					
Prep Date:			Analysis Date: 10/8/2014		SeqNo: 638775		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	65.8	139			
Surr: BFB	990		1000		99.2	80	120			

## Qualifiers:

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410348

09-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-15757 MK	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID: R21746		RunNo: 21746						
Prep Date:		Analysis Date: 10/8/2014		SeqNo: 638804		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	80	120			

Sample ID	LCS-15757 MK		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: R21746		RunNo: 21746					
Prep Date:			Analysis Date: 10/8/2014		SeqNo: 638805		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.9	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	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



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: 1410348

RcptNo: 1

Received by/date:

*[Signature]*

10/08/14

Logged By:

Lindsay Mangin

10/8/2014 6:50:00 AM

*[Signature]*

Completed By:

Lindsay Mangin

10/8/2014 7:31:58 AM

*[Signature]*

Reviewed By:

CS

10/08/14

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:


Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, NM</u>				Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u> Contact: <u>Andy Freeman</u> Phone: _____ PO/SO #: <u>Direct Bill to Enterprise</u>				ANALYSIS REQUESTED <div style="border: 1px solid black; height: 100px; width: 100%; position: relative;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(90deg); transform-origin: right top;">             BORE BTEX              BORE TPH (GRO/DEO)           </div> </div>				Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.7</u> <div style="display: flex; justify-content: space-around; width: 100%;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div> Page _____ of _____				
												Project Manager <u>Heather Woods</u> Sampler's Name <u>Heather Woods</u> Sampler's Signature <u>Heather M. Woods</u>				
Proj. No.		Project Name				No/Type of Containers										
<u>70304146035</u>		<u>Enterprise Gallegos # 2</u>				<u>MUOH Kit / 4 oz</u>										
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only) <div style="font-size: 1.5em; font-weight: bold;">1410348-001</div> <div style="font-size: 1.5em; font-weight: bold;">-002</div> <div style="font-size: 1.5em; font-weight: bold;">-003</div>			
<u>S</u>	<u>10/7/14</u>	<u>1340</u>			<u>C-1</u>						<u>1</u>	<u>1</u>				
<u>S</u>	<u>10/7/14</u>	<u>1350</u>			<u>C-2</u>						<u>1</u>	<u>1</u>	<u>X</u>	<u>X</u>		
<u>S</u>	<u>10/7/14</u>	<u>1400</u>			<u>C-3</u>						<u>1</u>	<u>1</u>	<u>X</u>	<u>X</u>		
<div style="font-size: 2em; transform: rotate(-30deg); opacity: 0.5;">             NFS #60           </div>																
Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Same Day - Results by 3:00 pm 10/8/14</u>																
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:		NOTES: <u>Direct bill to Enterprise Field Services</u> <u>Attn: Tom Long</u>  <u>WO # 878837</u> <u>Paykey RB21200</u>		
<u>Heather M. Woods</u>			<u>10/7/14</u>		<u>1815</u>		<u>Marta Wells</u>			<u>10/7/14</u>		<u>1815</u>				
<u>Marta Wells</u>			<u>10/7/14</u>		<u>1945</u>		<u>[Signature]</u>			<u>10/8/14</u>		<u>0650</u>				
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:				
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:				
Relinquished by (Signature)			Date:		Time:		Received by (Signature)			Date:		Time:				

Matrix Container

WW - Wastewater  
VOA - 40 ml vialW - Water  
A/G - Amber / Or Glass 1 Liter

S - Soil

SD - Solid

L - Liquid  
250 ml - Glass wide mouth

A - Air Bag

C - Charcoal tube  
P/O - Plastic or other MUOH Kit

SL - sludge

O - Oil





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

October 20, 2014

Kyle Summers  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410601

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/14/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1410601

Date Reported: 10/20/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** C-4**Project:** Gallegos #2**Collection Date:** 10/8/2014 11:20:00 AM**Lab ID:** 1410601-001**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/14/2014 12:15:40 PM	15880
Surr: DNOP	96.8	57.9-140		%REC	1	10/14/2014 12:15:40 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 10:33:56 PM	15883
Surr: BFB	91.1	80-120		%REC	1	10/15/2014 10:33:56 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/15/2014 10:33:56 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 10:33:56 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 10:33:56 PM	15883
Xylenes, Total	ND	0.099		mg/Kg	1	10/15/2014 10:33:56 PM	15883
Surr: 4-Bromofluorobenzene	90.9	80-120		%REC	1	10/15/2014 10:33:56 PM	15883

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 4
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410601

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15880	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	15880	RunNo:	21866					
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo:	643143	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Sample ID	LCS-15880	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	15880	RunNo:	21866					
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo:	643147	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

## 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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410601

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15883	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	15883	RunNo	21927					
Prep Date	10/14/2014	Analysis Date	10/15/2014	SeqNo	644456	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.2	80	120			

Sample ID	LCS-15883	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	15883	RunNo	21927					
Prep Date	10/14/2014	Analysis Date	10/15/2014	SeqNo	644457	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	65.8	139			
Surr: BFB	970		1000		96.6	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410601

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	<b>MB-15883</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>15883</b>		RunNo:	<b>21927</b>			
Prep Date:	<b>10/14/2014</b>		Analysis Date:	<b>10/15/2014</b>		SeqNo:	<b>644540</b>		Units: <b>mg/Kg</b>	
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	0.94		1.000		93.6	80	120			

Sample ID	<b>LCS-15883</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>15883</b>		RunNo:	<b>21927</b>			
Prep Date:	<b>10/14/2014</b>		Analysis Date:	<b>10/15/2014</b>		SeqNo:	<b>644541</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

## Qualifiers:

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



Hall Environmental Analysis Laboratory  
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Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410601

RcptNo: 1

Received by/date: LM 10/14/14

Logged By: Michelle Garcia 10/14/2014 7:00:00 AM

*Michelle Garcia*

Completed By: Michelle Garcia 10/14/2014 8:51:16 AM

*Michelle Garcia*

Reviewed By: CS 10/14/14

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_


17. Additional remarks:

### 18. Cooler Information

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



CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, NM</u>		Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u>		ANALYSIS REQUESTED  <div style="transform: rotate(-45deg); display: inline-block;">                     8021 BTEX                      8015 TPH (GRO/DEO)                 </div>		Lab use only Due Date:		
		Contact: <u>Andy Freeman</u> Phone: _____ PO/SO #: <u>Direct Bill to Enterprise</u>				Temp. of coolers when received (C°): <u>1.4</u> <table border="1" style="width:100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table> Page _____ of _____		1
1	2	3	4	5				
Project Manager <u>Heather Woods</u> Sampler's Name <u>Kyle Summers</u>		Sampler's Signature <u>[Signature]</u>						
Proj. No. <u>70304146035.001</u>		Project Name <u>Gallegos #2</u>		No/Type of Containers <u>4-oz</u>				
Matrix	Date	Time	<div style="display: flex; justify-content: space-between;"> <span>Cold</span> <span>Grab</span> </div>	Identifying Marks of Sample(s)	Start Depth	End Depth	<div style="display: flex; justify-content: space-between;"> <span>VOA</span> <span>A/G 1 L</span> <span>250 ml</span> <span>Glass Jar</span> <span>P/O</span> </div>	
S	10/8/14	1120		C-4				x x 1410601-001
<del> <div style="display: flex; align-items: center;"> <div style="flex: 1;">[Signature]</div> <div style="flex: 1;">[Signature]</div> </div> </del>								
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush								
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/14/14</u> Time: <u>1300</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>10/10/14</u> Time: <u>1300</u>		NOTES: Direct bill to Enterprise Field Services Attn: Tom Long  WO # B78B37 Paykey RB 21200
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>10/13/14</u> Time: <u>1910</u>		Received by (Signature) <u>[Signature]</u>		Date: <u>10/14/14</u> Time: <u>0700</u>		
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____		
Relinquished by (Signature) _____		Date: _____ Time: _____		Received by (Signature) _____		Date: _____ Time: _____		

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



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

October 20, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410602

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/14/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410602

Date Reported: 10/20/2014

CLIENT: APEX AZTEC

Client Sample ID: C-5

Project: Gallegos #2

Collection Date: 10/13/2014 3:36:00 PM

Lab ID: 1410602-001

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 5:30:02 PM	15880
Surr: DNOP	102	57.9-140		%REC	1	10/15/2014 5:30:02 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/15/2014 11:02:31 PM	15883
Surr: BFB	92.2	80-120		%REC	1	10/15/2014 11:02:31 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/15/2014 11:02:31 PM	15883
Toluene	ND	0.048		mg/Kg	1	10/15/2014 11:02:31 PM	15883
Ethylbenzene	ND	0.048		mg/Kg	1	10/15/2014 11:02:31 PM	15883
Xylenes, Total	ND	0.096		mg/Kg	1	10/15/2014 11:02:31 PM	15883
Surr: 4-Bromofluorobenzene	93.8	80-120		%REC	1	10/15/2014 11:02:31 PM	15883

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

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



## Analytical Report

Lab Order 1410602

Date Reported: 10/20/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: C-6

Project: Gallegos #2

Collection Date: 10/13/2014 3:40:00 PM

Lab ID: 1410602-002

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 6:01:07 PM	15880
Surr: DNOP	96.9	57.9-140		%REC	1	10/15/2014 6:01:07 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/15/2014 11:31:01 PM	15883
Surr: BFB	91.1	80-120		%REC	1	10/15/2014 11:31:01 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/15/2014 11:31:01 PM	15883
Toluene	ND	0.047		mg/Kg	1	10/15/2014 11:31:01 PM	15883
Ethylbenzene	ND	0.047		mg/Kg	1	10/15/2014 11:31:01 PM	15883
Xylenes, Total	ND	0.095		mg/Kg	1	10/15/2014 11:31:01 PM	15883
Surr: 4-Bromofluorobenzene	93.0	80-120		%REC	1	10/15/2014 11:31:01 PM	15883

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410602

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15880	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	15880	RunNo	21866					
Prep Date	10/14/2014	Analysis Date	10/14/2014	SeqNo	643143	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Sample ID	LCS-15880	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	15880	RunNo	21866					
Prep Date	10/14/2014	Analysis Date	10/14/2014	SeqNo	643147	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410602

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15883		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	15883		RunNo:	21927				
Prep Date:	10/14/2014		Analysis Date:	10/15/2014		SeqNo:	644456		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	900		1000		90.2	80	120				

Sample ID	LCS-15883		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 15883		RunNo: 21927					
Prep Date:	10/14/2014		Analysis Date: 10/15/2014		SeqNo: 644457		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	65.8	139			
Surr: BFB	970		1000		96.6	80	120			

## Qualifiers:

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410602

20-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	<b>MB-15883</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>15883</b>		RunNo:	<b>21927</b>			
Prep Date:	<b>10/14/2014</b>		Analysis Date:	<b>10/15/2014</b>		SeqNo:	<b>644540</b>		Units: <b>mg/Kg</b>	
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	0.94		1.000		93.6	80	120			

Sample ID	<b>LCS-15883</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>15883</b>		RunNo:	<b>21927</b>			
Prep Date:	<b>10/14/2014</b>		Analysis Date:	<b>10/15/2014</b>		SeqNo:	<b>644541</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410602

RcptNo: 1

Received by/date:	LM	10/14/14	
Logged By:	Michelle Garcia	10/14/2014 7:00:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	10/14/2014 9:01:21 AM	Michelle Garcia
Reviewed By:	CS	10/14/14	

### Chain of Custody

- |  |   |                             |   |
|--|---|-----------------------------|---|
| 1. Custody seals intact on sample bottles? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 3. How was the sample delivered?           | Courier                                 |                             |   |

### Log In

- |   |   |  |  |
|---|---|--|--|
| 4. Was an attempt made to cool the samples?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 5. Were all samples received at a temperature of >0° C to 6.0°C                           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 6. Sample(s) in proper container(s)?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 7. Sufficient sample volume for indicated test(s)?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 8. Are samples (except VOA and ONG) properly preserved?                                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 9. Was preservative added to bottles?   | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/>                      |
| 10. VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA Vials <input checked="" type="checkbox"/> |
| 11. Were any sample containers received broken?   | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |  |
| 12. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 13. Are matrices correctly identified on Chain of Custody?                                | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 14. Is it clear what analyses were requested?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 15. Were all holding times able to be met?<br>(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| 16. Was client notified of all discrepancies with this order? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
|---|------------------------------|-----------------------------|--|


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

17. Additional remarks:

### 18. Cooler Information

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

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, New Mexico</u>		Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u>		ANALYSIS REQUESTED  <div style="transform: rotate(-45deg); display: inline-block;">8021 BTEX</div> <div style="transform: rotate(-45deg); display: inline-block;">9015 TPH (Gravimetric)</div>		Lab use only Due Date:								
		Contact: <u>Andy Freeman</u> Phone: _____ PO/SO #: <u>Direct Bill to Enterprise</u>				Temp. of coolers when received (C°): <u>1.4</u> <div style="display: flex; justify-content: space-around;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div> Page <u>1</u> of <u>1</u>								
Project Manager <u>Heather Woods</u>		Sampler's Name <u>Heather Woods</u>		Sampler's Signature <u>Heather M. Woods</u>										
Proj. No. <u>70304146035</u>		Project Name <u>Gallegos #2</u>		No/Type of Containers <u>4 oz</u>										
Matrix	Date	Time	CO D	G ar b	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)	
S	10/13/14	1534			C-5						1		X X	1410002 -001
S	10/13/14	1540			C-6						1		X X	-002
<div style="transform: rotate(-30deg); display: inline-block; opacity: 0.5;">NFS HW</div>														
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush														
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES: Direct bill to Enterprise Field Services Attn: Tom Long  WO# B78837 Paykey <del>RB21200</del> RB21200						
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							

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





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

October 20, 2014

Heather Woods  
Enterprise Field Services  
614 Reilly Ave.  
Farmington, NM 87401  
TEL: (505) 599-2141  
FAX

RE: Enterprise Gallegos #2

OrderNo.: 1410690

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/15/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410690

Date Reported: 10/20/2014

CLIENT: Enterprise Field Services

Client Sample ID: C-7

Project: Enterprise Gallegos #2

Collection Date: 10/14/2014 4:00:00 PM

Lab ID: 1410690-001

Matrix: SOIL

Received Date: 10/15/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/16/2014 10:35:30 AM	15914
Surr: DNOP	98.2	57.9-140		%REC	1	10/16/2014 10:35:30 AM	15914
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	74	4.7		mg/Kg	1	10/16/2014 7:15:36 PM	15913
Surr: BFB	342	80-120	S	%REC	1	10/16/2014 7:15:36 PM	15913
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	0.27	0.047		mg/Kg	1	10/16/2014 7:15:36 PM	15913
Toluene	0.67	0.047		mg/Kg	1	10/16/2014 7:15:36 PM	15913
Ethylbenzene	0.49	0.047		mg/Kg	1	10/16/2014 7:15:36 PM	15913
Xylenes, Total	5.3	0.094		mg/Kg	1	10/16/2014 7:15:36 PM	15913
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	1	10/16/2014 7:15:36 PM	15913

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

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

# Analytical Report

Lab Order 1410690

Date Reported: 10/20/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: C-8

Project: Enterprise Gallegos #2

Collection Date: 10/14/2014 4:05:00 PM

Lab ID: 1410690-002

Matrix: SOIL

Received Date: 10/15/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	35	10		mg/Kg	1	10/16/2014 12:07:29 PM	15914
Surr: DNOP	93.9	63.5-128		%REC	1	10/16/2014 12:07:29 PM	15914
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	120	4.7		mg/Kg	1	10/16/2014 7:44:10 PM	15913
Surr: BFB	621	80-120	S	%REC	1	10/16/2014 7:44:10 PM	15913
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.057	0.047		mg/Kg	1	10/16/2014 7:44:10 PM	15913
Toluene	1.4	0.047		mg/Kg	1	10/16/2014 7:44:10 PM	15913
Ethylbenzene	0.78	0.047		mg/Kg	1	10/16/2014 7:44:10 PM	15913
Xylenes, Total	9.4	0.095		mg/Kg	1	10/16/2014 7:44:10 PM	15913
Surr: 4-Bromofluorobenzene	139	80-120	S	%REC	1	10/16/2014 7:44:10 PM	15913

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410690

Date Reported: 10/20/2014

CLIENT: Enterprise Field Services

Client Sample ID: C-9

Project: Enterprise Gallegos #2

Collection Date: 10/14/2014 4:10:00 PM

Lab ID: 1410690-003

Matrix: SOIL

Received Date: 10/15/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/16/2014 12:38:18 PM	15914
Surr: DNOP	101	63.5-128		%REC	1	10/16/2014 12:38:18 PM	15914
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	24	4.7		mg/Kg	1	10/16/2014 8:12:42 PM	15913
Surr: BFB	157	80-120	S	%REC	1	10/16/2014 8:12:42 PM	15913
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	10/16/2014 8:12:42 PM	15913
Toluene	0.31	0.047		mg/Kg	1	10/16/2014 8:12:42 PM	15913
Ethylbenzene	0.12	0.047		mg/Kg	1	10/16/2014 8:12:42 PM	15913
Xylenes, Total	1.4	0.094		mg/Kg	1	10/16/2014 8:12:42 PM	15913
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	10/16/2014 8:12:42 PM	15913

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

**Analytical Report**

Lab Order 1410690

Date Reported: 10/20/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enterprise Field Services**Client Sample ID:** C-10**Project:** Enterprise Gallegos #2**Collection Date:** 10/14/2014 4:15:00 PM**Lab ID:** 1410690-004**Matrix:** SOIL**Received Date:** 10/15/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/16/2014 1:09:08 PM	15914
Surr: DNOP	103	63.5-128		%REC	1	10/16/2014 1:09:08 PM	15914
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	16	4.7		mg/Kg	1	10/16/2014 3:26:55 PM	15913
Surr: BFB	159	80-120	S	%REC	1	10/16/2014 3:26:55 PM	15913
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.065	0.047		mg/Kg	1	10/16/2014 3:26:55 PM	15913
Toluene	0.19	0.047		mg/Kg	1	10/16/2014 3:26:55 PM	15913
Ethylbenzene	0.077	0.047		mg/Kg	1	10/16/2014 3:26:55 PM	15913
Xylenes, Total	0.93	0.094		mg/Kg	1	10/16/2014 3:26:55 PM	15913
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	10/16/2014 3:26:55 PM	15913

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Analytical Report**Lab Order **1410690**Date Reported: **10/20/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Enterprise Field Services**Client Sample ID:** C-11**Project:** Enterprise Gallegos #2**Collection Date:** 10/14/2014 4:35:00 PM**Lab ID:** 1410690-005**Matrix:** SOIL**Received Date:** 10/15/2014 7:30:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	10	10		mg/Kg	1	10/16/2014 1:40:13 PM	15914
Surr: DNOP	87.0	63.5-128		%REC	1	10/16/2014 1:40:13 PM	15914
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	26	4.7		mg/Kg	1	10/16/2014 8:41:15 PM	15913
Surr: BFB	186	80-120	S	%REC	1	10/16/2014 8:41:15 PM	15913
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.30	0.047		mg/Kg	1	10/16/2014 8:41:15 PM	15913
Toluene	0.52	0.047		mg/Kg	1	10/16/2014 8:41:15 PM	15913
Ethylbenzene	0.17	0.047		mg/Kg	1	10/16/2014 8:41:15 PM	15913
Xylenes, Total	1.9	0.094		mg/Kg	1	10/16/2014 8:41:15 PM	15913
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/16/2014 8:41:15 PM	15913

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410690

20-Oct-14

Client: Enterprise Field Services

Project: Enterprise Gallegos #2

Sample ID	MB-15914	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	15914	RunNo	21946					
Prep Date	10/15/2014	Analysis Date	10/16/2014	SeqNo	645102	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		91.8	57.9	140			

Sample ID	LCS-15914	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	15914	RunNo	21946					
Prep Date	10/15/2014	Analysis Date	10/16/2014	SeqNo	645103	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.6	130			
Surr: DNOP	4.3		5.000		86.5	57.9	140			

Sample ID	1410690-001AMS	SampType	MS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	C-7	Batch ID	15914	RunNo	21946					
Prep Date	10/15/2014	Analysis Date	10/16/2014	SeqNo	645105	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.8	49.16	0	110	40.1	152			
Surr: DNOP	4.7		4.916		95.8	57.9	140			

Sample ID	1410690-001AMSD	SampType	MSD	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	C-7	Batch ID	15914	RunNo	21946					
Prep Date	10/15/2014	Analysis Date	10/16/2014	SeqNo	645175	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.20	0	96.5	40.1	152	10.6	32.1	
Surr: DNOP	4.7		5.020		93.5	57.9	140	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410690

20-Oct-14

Client: Enterprise Field Services

Project: Enterprise Gallegos #2

Sample ID	MB-15913		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 15913		RunNo: 21955					
Prep Date:	10/15/2014		Analysis Date: 10/16/2014		SeqNo: 645490		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	80	120			

Sample ID	LCS-15913		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 15913		RunNo: 21955					
Prep Date:	10/15/2014		Analysis Date: 10/16/2014		SeqNo: 645491		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	65.8	139			
Surr: BFB	1000		1000		99.9	80	120			

Sample ID	1410690-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	C-8		Batch ID: 15913		RunNo: 21955					
Prep Date:	10/15/2014		Analysis Date: 10/16/2014		SeqNo: 645499		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	80	4.7	23.70	119.1	-164	71.8	132			S
Surr: BFB	3500		947.9		374	80	120			S

Sample ID	1410690-002AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	C-8		Batch ID: 15913		RunNo: 21955					
Prep Date:	10/15/2014		Analysis Date: 10/16/2014		SeqNo: 645500		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	96	4.7	23.72	119.1	-99.2	71.8	132	17.5	20	S
Surr: BFB	4200		948.8		446	80	120	0	0	S

## Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410690

20-Oct-14

Client: Enterprise Field Services

Project: Enterprise Gallegos #2

Sample ID	MB-15913		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	15913		RunNo:	21955			
Prep Date:	10/15/2014		Analysis Date:	10/16/2014		SeqNo:	645532		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	80	120			

Sample ID	LCS-15913		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	15913		RunNo:	21955			
Prep Date:	10/15/2014		Analysis Date:	10/16/2014		SeqNo:	645533		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	96.7	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID	1410690-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	C-7		Batch ID:	15913		RunNo:	21955			
Prep Date:	10/15/2014		Analysis Date:	10/16/2014		SeqNo:	645547		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9390	0.2709	85.3	77.4	142			
Toluene	1.0	0.047	0.9390	0.6699	40.2	77	132			S
Ethylbenzene	1.0	0.047	0.9390	0.4918	57.1	77.6	134			S
Xylenes, Total	3.7	0.094	2.817	5.269	-56.2	77.4	132			S
Surr: 4-Bromofluorobenzene	0.98		0.9390		104	80	120			

Sample ID	1410690-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	C-7		Batch ID:	15913		RunNo:	21955			
Prep Date:	10/15/2014		Analysis Date:	10/16/2014		SeqNo:	645548		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.047	0.9390	0.2709	81.4	77.4	142	3.46	20	
Toluene	1.1	0.047	0.9390	0.6699	41.4	77	132	1.11	20	S
Ethylbenzene	1.0	0.047	0.9390	0.4918	58.9	77.6	134	1.68	20	S
Xylenes, Total	4.0	0.094	2.817	5.269	-46.1	77.4	132	7.45	20	S
Surr: 4-Bromofluorobenzene	0.99		0.9390		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





## Sample Log-In Check List

Client Name: Enterprise

Work Order Number: 1410690

RcptNo: 1

Received by/date: AT 10/15/14

Logged By: Anne Thorne 10/15/2014 7:30:00 AM

*Anne Thorne*

Completed By: Anne Thorne 10/15/2014

*Anne Thorne*

Reviewed By: CS 10/15/14

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

# Chain-of-Custody Record

Client: Enterprise Field Services

Mailing Address: 614 Reilly Ave  
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#:

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

Accreditation  
☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:

☒ Standard ☐ Rush \_\_\_\_\_

Project Name:

Enterprise Gallegos #2

Project #:

70304146035

Project Manager:

Heather Woods

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 24



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / M800)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air (Rubbish / V or M)
10/14/14	1600	Soil	C-7	1-402	—	201	X	X										
10/14/14	1605	Soil	C-8	1-402	—	202	X	X										
10/14/14	1610	Soil	C-9	1-402	—	203	X	X										
10/14/14	1615	Soil	C-10	1-402	—	204	X	X										
10/14/14	1635	Soil	C-11	1-402	—	205	X	X										
<div> <div>NEB</div> <div>the</div> </div>																		

Date: 10/14/14	Time: 1850	Relinquished by: <u>Heather M. Woods</u>	Received by: <u>Christine Waelen</u>	Date: 10/14/14	Time: 1850
Date: 10/14/14	Time: 1930	Relinquished by: <u>Christine Waelen</u>	Received by: <u>Chris</u>	Date: 10/15/14	Time: 0730

Remarks: Direct bill to Enterprise Field Services

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



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

October 21, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410855

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/17/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410855

Date Reported: 10/21/2014

CLIENT: APEX AZTEC

Client Sample ID: C-12

Project: Enterprise Gallegos #2

Collection Date: 10/16/2014 11:35:00 AM

Lab ID: 1410855-001

Matrix: SOIL

Received Date: 10/17/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/20/2014 12:25:40 PM	15958
Surr: DNOP	98.5	63.5-128		%REC	1	10/20/2014 12:25:40 PM	15958
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/20/2014 4:22:44 PM	15966
Surr: BFB	91.8	80-120		%REC	1	10/20/2014 4:22:44 PM	15966
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.067	0.050		mg/Kg	1	10/20/2014 4:22:44 PM	15966
Toluene	ND	0.050		mg/Kg	1	10/20/2014 4:22:44 PM	15966
Ethylbenzene	ND	0.050		mg/Kg	1	10/20/2014 4:22:44 PM	15966
Xylenes, Total	ND	0.099		mg/Kg	1	10/20/2014 4:22:44 PM	15966
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	10/20/2014 4:22:44 PM	15966

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

**Analytical Report**Lab Order **1410855**Date Reported: **10/21/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** C-13**Project:** Enterprise Gallegos #2**Collection Date:** 10/16/2014 11:40:00 AM**Lab ID:** 1410855-002**Matrix:** SOIL**Received Date:** 10/17/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/20/2014 2:27:34 PM	15958
Surr: DNOP	98.9	63.5-128		%REC	1	10/20/2014 2:27:34 PM	15958
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2014 5:48:42 PM	15966
Surr: BFB	92.2	80-120		%REC	1	10/20/2014 5:48:42 PM	15966
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.30	0.047		mg/Kg	1	10/20/2014 5:48:42 PM	15966
Toluene	0.21	0.047		mg/Kg	1	10/20/2014 5:48:42 PM	15966
Ethylbenzene	0.052	0.047		mg/Kg	1	10/20/2014 5:48:42 PM	15966
Xylenes, Total	0.39	0.095		mg/Kg	1	10/20/2014 5:48:42 PM	15966
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	1	10/20/2014 5:48:42 PM	15966

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410855

Date Reported: 10/21/2014

CLIENT: APEX AZTEC

Client Sample ID: C-14

Project: Enterprise Gallegos #2

Collection Date: 10/16/2014 11:45:00 AM

Lab ID: 1410855-003

Matrix: SOIL

Received Date: 10/17/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/20/2014 2:58:19 PM	15958
Surr: DNOP	103	63.5-128		%REC	1	10/20/2014 2:58:19 PM	15958
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/20/2014 2:56:49 PM	15966
Surr: BFB	92.0	80-120		%REC	1	10/20/2014 2:56:49 PM	15966
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.095	0.047		mg/Kg	1	10/20/2014 2:56:49 PM	15966
Toluene	0.12	0.047		mg/Kg	1	10/20/2014 2:56:49 PM	15966
Ethylbenzene	ND	0.047		mg/Kg	1	10/20/2014 2:56:49 PM	15966
Xylenes, Total	0.24	0.095		mg/Kg	1	10/20/2014 2:56:49 PM	15966
Surr: 4-Bromofluorobenzene	95.6	80-120		%REC	1	10/20/2014 2:56:49 PM	15966

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.
RL	Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410855

Date Reported: 10/21/2014

CLIENT: APEX AZTEC

Client Sample ID: C-15

Project: Enterprise Gallegos #2

Collection Date: 10/16/2014 11:50:00 AM

Lab ID: 1410855-004

Matrix: SOIL

Received Date: 10/17/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/20/2014 3:28:47 PM	15958
Surr: DNOP	102	63.5-128		%REC	1	10/20/2014 3:28:47 PM	15958
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/20/2014 3:54:00 PM	15966
Surr: BFB	89.7	80-120		%REC	1	10/20/2014 3:54:00 PM	15966
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/20/2014 3:54:00 PM	15966
Toluene	ND	0.049		mg/Kg	1	10/20/2014 3:54:00 PM	15966
Ethylbenzene	ND	0.049		mg/Kg	1	10/20/2014 3:54:00 PM	15966
Xylenes, Total	ND	0.098		mg/Kg	1	10/20/2014 3:54:00 PM	15966
Surr: 4-Bromofluorobenzene	92.2	80-120		%REC	1	10/20/2014 3:54:00 PM	15966

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410855

21-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-15958	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	15958	RunNo	22014					
Prep Date	10/17/2014	Analysis Date	10/20/2014	SeqNo	647196	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.5		10.00		84.7	63.5	128			

Sample ID	LCS-15958	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	15958	RunNo	22014					
Prep Date	10/17/2014	Analysis Date	10/20/2014	SeqNo	647197	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.9	68.6	130			
Surr: DNOP	3.7		5.000		73.5	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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410855

21-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-15966	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	15966	RunNo:	22027					
Prep Date:	10/17/2014	Analysis Date:	10/20/2014	SeqNo:	647476	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.3	80	120			

Sample ID	LCS-15966	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	15966	RunNo:	22027					
Prep Date:	10/17/2014	Analysis Date:	10/20/2014	SeqNo:	647477	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	65.8	139			
Surr: BFB	1000		1000		99.6	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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410855

21-Oct-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	<b>MB-15966</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>15966</b>		RunNo:	<b>22027</b>			
Prep Date:	<b>10/17/2014</b>		Analysis Date:	<b>10/20/2014</b>		SeqNo:	<b>647489</b>		Units: <b>mg/Kg</b>	
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	0.95		1.000		95.3	80	120			

Sample ID	<b>LCS-15966</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>15966</b>		RunNo:	<b>22027</b>			
Prep Date:	<b>10/17/2014</b>		Analysis Date:	<b>10/20/2014</b>		SeqNo:	<b>647490</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.050	1.000	0	89.7	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	<b>1410855-001AMS</b>		SampType:	<b>MS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>C-12</b>		Batch ID:	<b>15966</b>		RunNo:	<b>22027</b>			
Prep Date:	<b>10/17/2014</b>		Analysis Date:	<b>10/20/2014</b>		SeqNo:	<b>647498</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.050	0.9921	0.06660	79.6	77.4	142			
Toluene	0.82	0.050	0.9921	0.01429	80.8	77	132			
Ethylbenzene	0.85	0.050	0.9921	0.01239	84.1	77.6	134			
Xylenes, Total	2.6	0.099	2.976	0.03534	84.5	77.4	132			
Surr: 4-Bromofluorobenzene	0.99		0.9921		99.5	80	120			

Sample ID	<b>1410855-001AMSD</b>		SampType:	<b>MSD</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>C-12</b>		Batch ID:	<b>15966</b>		RunNo:	<b>22027</b>			
Prep Date:	<b>10/17/2014</b>		Analysis Date:	<b>10/20/2014</b>		SeqNo:	<b>647499</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.050	0.9930	0.06660	77.6	77.4	142	2.27	20	
Toluene	0.78	0.050	0.9930	0.01429	77.4	77	132	4.16	20	
Ethylbenzene	0.80	0.050	0.9930	0.01239	79.8	77.6	134	5.10	20	
Xylenes, Total	2.4	0.099	2.979	0.03534	80.2	77.4	132	5.08	20	
Surr: 4-Bromofluorobenzene	0.99		0.9930		99.6	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

# Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410855

RcptNo: 1

Received by/date: LM 10/17/14

Logged By: Michelle Garcia 10/17/2014 8:15:00 AM

*Michelle Garcia*

Completed By: Michelle Garcia 10/17/2014 10:51:24 AM

*Michelle Garcia*

Reviewed By: CS 10/17/14

## Chain of Custody

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

## Log In

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

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (If applicable)

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

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

17. Additional remarks:

## 18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	5.4	Good	Yes			

[illegible]





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

October 31, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410D39

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/30/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410D39

Date Reported: 10/31/2014

CLIENT: APEX AZTEC

Client Sample ID: C-16

Project: Gallegos #2

Collection Date: 10/29/2014 10:30:00 AM

Lab ID: 1410D39-001

Matrix: SOIL

Received Date: 10/30/2014 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/30/2014 9:25:58 AM	16162
Surr: DNOP	94.7	63.5-128		%REC	1	10/30/2014 9:25:58 AM	16162
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/30/2014 10:35:00 AM	R22237
Surr: BFB	90.9	80-120		%REC	1	10/30/2014 10:35:00 AM	R22237
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	0.043	0.036		mg/Kg	1	10/30/2014 10:35:00 AM	R22237
Toluene	ND	0.036		mg/Kg	1	10/30/2014 10:35:00 AM	R22237
Ethylbenzene	ND	0.036		mg/Kg	1	10/30/2014 10:35:00 AM	R22237
Xylenes, Total	ND	0.071		mg/Kg	1	10/30/2014 10:35:00 AM	R22237
Surr: 4-Bromofluorobenzene	94.3	80-120		%REC	1	10/30/2014 10:35:00 AM	R22237

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 4
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410D39

31-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	LCS-16162		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 16162		RunNo: 22228					
Prep Date:	10/30/2014		Analysis Date: 10/30/2014		SeqNo: 654885		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	68.6	130			
Surr: DNOP	4.0		5.000		79.5	63.5	128			

Sample ID	MB-16162		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 16162		RunNo: 22228					
Prep Date:	10/30/2014		Analysis Date: 10/30/2014		SeqNo: 654909		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		87.8	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
- P Sample pH greater than 2.
- RL Reporting Detection Limit



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410D39

31-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-16141 MK		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: R22237		RunNo: 22237					
Prep Date:			Analysis Date: 10/30/2014		SeqNo: 655593		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.1	80	120			

Sample ID	LCS-16141 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R22237		RunNo: 22237					
Prep Date:			Analysis Date: 10/30/2014		SeqNo: 655594		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	65.8	139			
Surr: BFB	980		1000		98.1	80	120			

Sample ID	MB-16141		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 16141		RunNo: 22237					
Prep Date:	10/29/2014		Analysis Date: 10/30/2014		SeqNo: 655604		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.1	80	120			

Sample ID	LCS-16141		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 16141		RunNo: 22237					
Prep Date:	10/29/2014		Analysis Date: 10/30/2014		SeqNo: 655605		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.1	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410D39

31-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-16141 MK	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: R22237			RunNo: 22237					
Prep Date:		Analysis Date: 10/30/2014			SeqNo: 655628		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			

Sample ID	LCS-16141 MK		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: R22237		RunNo: 22237					
Prep Date:			Analysis Date: 10/30/2014		SeqNo: 655629		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.6	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

Sample ID	MB-16141		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 16141		RunNo: 22237					
Prep Date:	10/29/2014		Analysis Date: 10/30/2014		SeqNo: 655634		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	80	120			

Sample ID	LCS-16141		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 16141		RunNo: 22237					
Prep Date:	10/29/2014		Analysis Date: 10/30/2014		SeqNo: 655635		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	80	120			

### Qualifiers:

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

# Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410D39

RcptNo: 1

Received by/date:

LMM 10/30/14

Logged By: Anne Thorne

10/20/2014 7:15:00 AM

Anne Thorne

Completed By: Anne Thorne

10/30/2014

Anne Thorne

Reviewed By:

10/30/14

## Chain of Custody

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

## Log In

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

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:


17. Additional remarks:

## 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			



## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, NM</u>		Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u> Contact: <u>Andy Freeman</u> Phone: _____ PO/SO #: <u>Direct Bill to Enterprise</u>		ANALYSIS REQUESTED <div style="border: 1px solid black; padding: 5px; transform: rotate(-90deg); transform-origin: center;">             BORI BTX              BOLS TPH (GRO/DRO)           </div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.9</u> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">1</td> <td style="width:20%;">2</td> <td style="width:20%;">3</td> <td style="width:20%;">4</td> <td style="width:20%;">5</td> </tr> </table> Page _____ of _____		1	2	3	4	5
		1	2			3	4	5				
Project Manager <u>Heather Woods</u> Sampler's Name <u>Heather Woods</u> Sampler's Signature <u>Heather M. Woods</u>		Project Name <u>Gallegos #2</u> No/Type of Containers <u>4-02</u>										

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	10/29/14	1030			C-16						1		1410 D39-001
<div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 2em; opacity: 0.5;">NFS</span> </div>													

Turn around time <input type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input checked="" type="checkbox"/> 100% Rush <u>Same Day</u>						
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	NOTES: <u>Direct Bill to Enterprise Field Services</u> <u>Attn: Tom Long</u>
<u>Heather M. Woods</u>	<u>10/29/14</u>	<u>1446</u>	<u>Christine Walker</u>	<u>10/29/14</u>	<u>1446</u>	
<u>Christine Walker</u>	<u>10/29/14</u>	<u>1800</u>	<u>[Signature]</u>	<u>10/30/14</u>	<u>0715</u>	
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	

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



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

October 21, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Gallegos #2

OrderNo.: 1410597

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/14/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**Lab Order **1410597**Date Reported: **10/21/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** SP-1**Project:** Gallegos #2**Collection Date:** 10/13/2014 3:00:00 PM**Lab ID:** 1410597-001**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 9:19:54 AM	15880
Surr: DNOP	111	57.9-140		%REC	1	10/15/2014 9:19:54 AM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 1:01:57 PM	15883
Surr: BFB	90.1	80-120		%REC	1	10/15/2014 1:01:57 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/15/2014 1:01:57 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 1:01:57 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 1:01:57 PM	15883
Xylenes, Total	ND	0.098		mg/Kg	1	10/15/2014 1:01:57 PM	15883
Surr: 4-Bromofluorobenzene	92.9	80-120		%REC	1	10/15/2014 1:01:57 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	12	1.5		mg/Kg	1	10/16/2014 5:59:56 PM	15944

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



**Analytical Report**Lab Order **1410597**Date Reported: **10/21/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** SP-2**Project:** Gallegos #2**Collection Date:** 10/13/2014 3:02:00 PM**Lab ID:** 1410597-002**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2014 10:50:33 AM	15880
Surr: DNOP	98.8	57.9-140		%REC	1	10/15/2014 10:50:33 AM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 2:27:50 PM	15883
Surr: BFB	90.0	80-120		%REC	1	10/15/2014 2:27:50 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/15/2014 2:27:50 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 2:27:50 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 2:27:50 PM	15883
Xylenes, Total	ND	0.098		mg/Kg	1	10/15/2014 2:27:50 PM	15883
Surr: 4-Bromofluorobenzene	92.2	80-120		%REC	1	10/15/2014 2:27:50 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	9.2	1.5		mg/Kg	1	10/16/2014 6:37:10 PM	15944

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

CLIENT: APEX AZTEC

Client Sample ID: SP-3

Project: Gallegos #2

Collection Date: 10/13/2014 3:04:00 PM

Lab ID: 1410597-003

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2014 11:20:46 AM	15880
Surr: DNOP	95.5	57.9-140		%REC	1	10/15/2014 11:20:46 AM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 2:56:24 PM	15883
Surr: BFB	89.4	80-120		%REC	1	10/15/2014 2:56:24 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/15/2014 2:56:24 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 2:56:24 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 2:56:24 PM	15883
Xylenes, Total	ND	0.099		mg/Kg	1	10/15/2014 2:56:24 PM	15883
Surr: 4-Bromofluorobenzene	92.1	80-120		%REC	1	10/15/2014 2:56:24 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	11	1.5		mg/Kg	1	10/17/2014 1:19:03 PM	15944

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

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

**Analytical Report**Lab Order **1410597**Date Reported: **10/21/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** SP-4**Project:** Gallegos #2**Collection Date:** 10/13/2014 3:05:00 PM**Lab ID:** 1410597-004**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 11:51:20 AM	15880
Surr: DNOP	100	57.9-140		%REC	1	10/15/2014 11:51:20 AM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 3:24:57 PM	15883
Surr: BFB	90.1	80-120		%REC	1	10/15/2014 3:24:57 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/15/2014 3:24:57 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 3:24:57 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 3:24:57 PM	15883
Xylenes, Total	ND	0.097		mg/Kg	1	10/15/2014 3:24:57 PM	15883
Surr: 4-Bromofluorobenzene	92.0	80-120		%REC	1	10/15/2014 3:24:57 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	10	1.5		mg/Kg	1	10/17/2014 1:31:28 PM	15944

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

<b>Qualifiers:</b>	<b>*</b>	Value exceeds Maximum Contaminant Level.	<b>B</b>	Analyte detected in the associated Method Blank
	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded
	<b>J</b>	Analyte detected below quantitation limits	<b>ND</b>	Not Detected at the Reporting Limit
	<b>O</b>	RSD is greater than RSDlimit	<b>P</b>	Sample pH greater than 2.
	<b>R</b>	RPD outside accepted recovery limits	<b>RL</b>	Reporting Detection Limit
	<b>S</b>	Spike Recovery outside accepted recovery limits		



**Analytical Report**

Lab Order 1410597

Date Reported: 10/21/2014

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** SP-5**Project:** Gallegos #2**Collection Date:** 10/13/2014 3:06:00 PM**Lab ID:** 1410597-005**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 12:21:52 PM	15880
Surr: DNOP	102	57.9-140		%REC	1	10/15/2014 12:21:52 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 3:53:30 PM	15883
Surr: BFB	89.2	80-120		%REC	1	10/15/2014 3:53:30 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	10/15/2014 3:53:30 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 3:53:30 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 3:53:30 PM	15883
Xylenes, Total	ND	0.099		mg/Kg	1	10/15/2014 3:53:30 PM	15883
Surr: 4-Bromofluorobenzene	90.6	80-120		%REC	1	10/15/2014 3:53:30 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Chloride	11	1.5		mg/Kg	1	10/17/2014 10:25:16 AM	15944

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 16
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-6

Project: Gallegos #2

Collection Date: 10/13/2014 3:08:00 PM

Lab ID: 1410597-006

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2014 12:52:34 PM	15880
Surr: DNOP	101	57.9-140		%REC	1	10/15/2014 12:52:34 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/15/2014 4:22:13 PM	15883
Surr: BFB	90.2	80-120		%REC	1	10/15/2014 4:22:13 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/15/2014 4:22:13 PM	15883
Toluene	ND	0.048		mg/Kg	1	10/15/2014 4:22:13 PM	15883
Ethylbenzene	ND	0.048		mg/Kg	1	10/15/2014 4:22:13 PM	15883
Xylenes, Total	ND	0.095		mg/Kg	1	10/15/2014 4:22:13 PM	15883
Surr: 4-Bromofluorobenzene	92.7	80-120		%REC	1	10/15/2014 4:22:13 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	7.2	1.5		mg/Kg	1	10/17/2014 10:37:41 AM	15944

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 16
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

CLIENT: APEX AZTEC

Client Sample ID: SP-7

Project: Gallegos #2

Collection Date: 10/13/2014 3:12:00 PM

Lab ID: 1410597-007

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 1:23:25 PM	15880
Surr: DNOP	100	57.9-140		%REC	1	10/15/2014 1:23:25 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/15/2014 4:50:54 PM	15883
Surr: BFB	90.7	80-120		%REC	1	10/15/2014 4:50:54 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/15/2014 4:50:54 PM	15883
Toluene	ND	0.048		mg/Kg	1	10/15/2014 4:50:54 PM	15883
Ethylbenzene	ND	0.048		mg/Kg	1	10/15/2014 4:50:54 PM	15883
Xylenes, Total	ND	0.097		mg/Kg	1	10/15/2014 4:50:54 PM	15883
Surr: 4-Bromofluorobenzene	93.0	80-120		%REC	1	10/15/2014 4:50:54 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	12	1.5		mg/Kg	1	10/17/2014 10:50:05 AM	15944

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 7 of 16
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			



# Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-8

Project: Gallegos #2

Collection Date: 10/13/2014 3:25:00 PM

Lab ID: 1410597-008

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 2:25:02 PM	15880
Surr: DNOP	108	57.9-140		%REC	1	10/15/2014 2:25:02 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/15/2014 5:19:34 PM	15883
Surr: BFB	90.6	80-120		%REC	1	10/15/2014 5:19:34 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/15/2014 5:19:34 PM	15883
Toluene	ND	0.047		mg/Kg	1	10/15/2014 5:19:34 PM	15883
Ethylbenzene	ND	0.047		mg/Kg	1	10/15/2014 5:19:34 PM	15883
Xylenes, Total	ND	0.094		mg/Kg	1	10/15/2014 5:19:34 PM	15883
Surr: 4-Bromofluorobenzene	92.6	80-120		%REC	1	10/15/2014 5:19:34 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	8.2	1.5		mg/Kg	1	10/17/2014 11:02:30 AM	15944

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

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

**Analytical Report**Lab Order **1410597**Date Reported: **10/21/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** SP-9**Project:** Gallegos #2**Collection Date:** 10/13/2014 3:27:00 PM**Lab ID:** 1410597-009**Matrix:** SOIL**Received Date:** 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>				Analyst: <b>JME</b>			
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/15/2014 2:55:33 PM	15880
Surr: DNOP	101	57.9-140		%REC	1	10/15/2014 2:55:33 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>				Analyst: <b>NSB</b>			
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 5:48:12 PM	15883
Surr: BFB	88.9	80-120		%REC	1	10/15/2014 5:48:12 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>				Analyst: <b>NSB</b>			
Benzene	ND	0.049		mg/Kg	1	10/15/2014 5:48:12 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 5:48:12 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 5:48:12 PM	15883
Xylenes, Total	ND	0.099		mg/Kg	1	10/15/2014 5:48:12 PM	15883
Surr: 4-Bromofluorobenzene	90.5	80-120		%REC	1	10/15/2014 5:48:12 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>				Analyst: <b>LGP</b>			
Chloride	5.5	1.5		mg/Kg	1	10/17/2014 11:14:54 AM	15944

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

<b>Qualifiers:</b>	<b>*</b>	Value exceeds Maximum Contaminant Level.	<b>B</b>	Analyte detected in the associated Method Blank
	<b>E</b>	Value above quantitation range	<b>H</b>	Holding times for preparation or analysis exceeded
	<b>J</b>	Analyte detected below quantitation limits	<b>ND</b>	Not Detected at the Reporting Limit
	<b>O</b>	RSD is greater than RSDlimit	<b>P</b>	Sample pH greater than 2.
	<b>R</b>	RPD outside accepted recovery limits	<b>RL</b>	Reporting Detection Limit
	<b>S</b>	Spike Recovery outside accepted recovery limits		

# Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-10

Project: Gallegos #2

Collection Date: 10/13/2014 3:28:00 PM

Lab ID: 1410597-010

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2014 3:26:17 PM	15880
Surr: DNOP	97.3	57.9-140		%REC	1	10/15/2014 3:26:17 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 8:10:58 PM	15883
Surr: BFB	89.6	80-120		%REC	1	10/15/2014 8:10:58 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/15/2014 8:10:58 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 8:10:58 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 8:10:58 PM	15883
Xylenes, Total	ND	0.099		mg/Kg	1	10/15/2014 8:10:58 PM	15883
Surr: 4-Bromofluorobenzene	90.7	80-120		%REC	1	10/15/2014 8:10:58 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	17	1.5		mg/Kg	1	10/17/2014 11:27:19 AM	15944

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 10 of 16
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			



# Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-11

Project: Gallegos #2

Collection Date: 10/13/2014 3:30:00 PM

Lab ID: 1410597-011

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2014 3:57:07 PM	15880
Surr: DNOP	109	57.9-140		%REC	1	10/15/2014 3:57:07 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/15/2014 8:39:37 PM	15883
Surr: BFB	89.8	80-120		%REC	1	10/15/2014 8:39:37 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/15/2014 8:39:37 PM	15883
Toluene	ND	0.048		mg/Kg	1	10/15/2014 8:39:37 PM	15883
Ethylbenzene	ND	0.048		mg/Kg	1	10/15/2014 8:39:37 PM	15883
Xylenes, Total	ND	0.096		mg/Kg	1	10/15/2014 8:39:37 PM	15883
Surr: 4-Bromofluorobenzene	92.2	80-120		%REC	1	10/15/2014 8:39:37 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	8.0	1.5		mg/Kg	1	10/17/2014 11:39:43 AM	15944

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 11 of 16
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1410597

Date Reported: 10/21/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX AZTEC

Client Sample ID: SP-12

Project: Gallegos #2

Collection Date: 10/13/2014 3:32:00 PM

Lab ID: 1410597-012

Matrix: SOIL

Received Date: 10/14/2014 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2014 4:27:51 PM	15880
Surr: DNOP	98.4	57.9-140		%REC	1	10/15/2014 4:27:51 PM	15880
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/15/2014 9:08:17 PM	15883
Surr: BFB	90.3	80-120		%REC	1	10/15/2014 9:08:17 PM	15883
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/15/2014 9:08:17 PM	15883
Toluene	ND	0.049		mg/Kg	1	10/15/2014 9:08:17 PM	15883
Ethylbenzene	ND	0.049		mg/Kg	1	10/15/2014 9:08:17 PM	15883
Xylenes, Total	ND	0.098		mg/Kg	1	10/15/2014 9:08:17 PM	15883
Surr: 4-Bromofluorobenzene	92.4	80-120		%REC	1	10/15/2014 9:08:17 PM	15883
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGP
Chloride	4.6	1.5		mg/Kg	1	10/17/2014 11:52:08 AM	15944

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410597

21-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15944	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	15944	RunNo	21982					
Prep Date	10/16/2014	Analysis Date	10/16/2014	SeqNo	646169	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-15944	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	15944	RunNo	21982					
Prep Date	10/16/2014	Analysis Date	10/16/2014	SeqNo	646170	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Sample ID	1410597-001AMS	SampType	MS	TestCode	EPA Method 300.0: Anions					
Client ID	SP-1	Batch ID	15944	RunNo	21982					
Prep Date	10/16/2014	Analysis Date	10/16/2014	SeqNo	646176	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24	1.5	15.00	11.93	82.7	61.7	122			

Sample ID	1410597-001AMSD	SampType	MSD	TestCode	EPA Method 300.0: Anions					
Client ID	SP-1	Batch ID	15944	RunNo	21982					
Prep Date	10/16/2014	Analysis Date	10/16/2014	SeqNo	646177	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26	1.5	15.00	11.93	91.2	61.7	122	5.11	20	

## Qualifiers:

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410597

21-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15880	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	15880	RunNo:	21866					
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo:	643143	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		96.2	57.9	140			

Sample ID	LCS-15880	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	15880	RunNo:	21866					
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo:	643147	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.6	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

Sample ID	1410597-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SP-1	Batch ID:	15880	RunNo:	21899					
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo:	644218	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	49.75	0	110	40.1	152			
Surr: DNOP	5.6		4.975		113	57.9	140			

Sample ID	1410597-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SP-1	Batch ID:	15880	RunNo:	21899					
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo:	644219	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.50	0	97.9	40.1	152	12.4	32.1	
Surr: DNOP	4.9		4.950		98.5	57.9	140	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410597

21-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15883	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	15883	RunNo:	21927					
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo:	644456	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.2	80	120			

Sample ID	LCS-15883	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	15883	RunNo:	21927					
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo:	644457	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	65.8	139			
Surr: BFB	970		1000		96.6	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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410597

21-Oct-14

Client: APEX AZTEC

Project: Gallegos #2

Sample ID	MB-15883		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	15883		RunNo:	21927			
Prep Date:	10/14/2014		Analysis Date:	10/15/2014		SeqNo:	644540		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

Sample ID	LCS-15883		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	15883		RunNo:	21927			
Prep Date:	10/14/2014		Analysis Date:	10/15/2014		SeqNo:	644541		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	96.2	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	1410597-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SP-1		Batch ID:	15883		RunNo:	21927			
Prep Date:	10/14/2014		Analysis Date:	10/15/2014		SeqNo:	644544		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.049	0.9852	0	89.8	77.4	142			
Toluene	0.90	0.049	0.9852	0.008222	90.9	77	132			
Ethylbenzene	0.97	0.049	0.9852	0	98.7	77.6	134			
Xylenes, Total	2.9	0.099	2.956	0.01448	98.2	77.4	132			
Surr: 4-Bromofluorobenzene	0.98		0.9852		99.1	80	120			

Sample ID	1410597-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SP-1		Batch ID:	15883		RunNo:	21927			
Prep Date:	10/14/2014		Analysis Date:	10/15/2014		SeqNo:	644545		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.049	0.9852	0	99.0	77.4	142	9.74	20	
Toluene	1.0	0.049	0.9852	0.008222	100	77	132	9.96	20	
Ethylbenzene	1.0	0.049	0.9852	0	105	77.6	134	6.04	20	
Xylenes, Total	3.1	0.099	2.956	0.01448	104	77.4	132	5.89	20	
Surr: 4-Bromofluorobenzene	0.98		0.9852		99.6	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



# Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410597

RcptNo: 1

Received by/date: LM 10/14/14

Logged By: Anne Thorne 10/14/2014 7:00:00 AM *Anne Thorne*

Completed By: Anne Thorne 10/14/2014 *Anne Thorne*

Reviewed By: *[Signature]* 10/14/14

## Chain of Custody

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

## Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

## Special Handling (if applicable)

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


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

17. Additional remarks:

## 18. Cooler Information

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

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, New Mexico</u>		Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u>		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); position: relative; top: 50px; left: 50px;">             8021 BTEX              8015 TPH (GRO/DRO)              C1              A 10/15/14           </div>										Lab use only Due Date:					
		Contact: <u>Andy Freeman</u> Phone:												Temp. of coolers when received (C°): <u>1.4</u> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> </table>		1	2	3	4
1	2	3	4	5															
Project Manager <u>Heather Woods</u>		PO/ISO #: <u>Direct Bill to Enterprise</u>		Page <u>1</u> of <u>2</u>															
Sampler's Name <u>Heather Woods</u>		Sampler's Signature <u>Heather M. Woods</u>																	
Proj. No. <u>7030414 G035</u>		Project Name <u>Gallegos #2</u>				No/Type of Containers <u>4-02</u>				Lab Sample ID (Lab Use Only)									
Matrix	Date	Time	COED	GARB	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1L										
S	10/13/14	1500			SP-1						1		X X X	<u>1410597 -001</u> <u>-002</u> <u>-003</u> <u>-004</u> <u>-005</u> <u>-006</u> <u>-007</u> <u>-008</u> <u>-009</u> <u>-010</u>					
S	10/13/14	1502			SP-2						1		X X X						
S	10/13/14	1504			SP-3						1		X X X						
S	10/13/14	1505			SP-4						1		X X X						
S	10/13/14	1506			SP-5						1		X X X						
S	10/13/14	1508			SP-6						1		X X X						
S	10/13/14	1512			SP-7						1		X X X						
S	10/13/14	1525			SP-8						1		X X X						
S	10/13/14	1527			SP-9						1		X X X						
S	10/13/14	1528			SP-10						1		X X X						
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush																			
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES: Direct bill to Enterprise Field Services Attn: Tom Long  WO # 870837 Paykey RB21200 How added 10/15/14 C1 to all samples 10/15/14											
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:												
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:												
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:												

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









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

November 03, 2014

Heather Woods  
APEX AZTEC  
606 S. Rio Grande Unit A  
Aztec, NM 87410  
TEL: (505) 716-2787  
FAX (505) 334-5204

RE: Enterprise Gallegos #2

OrderNo.: 1410857

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/17/2014 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**Lab Order **1410857**Date Reported: **11/3/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX AZTEC**Client Sample ID:** EW-1**Project:** Enterprise Gallegos #2**Collection Date:** 10/16/2014 1:20:00 PM**Lab ID:** 1410857-001**Matrix:** AQUEOUS**Received Date:** 10/17/2014 8:15:00 AM

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch</b>
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	1400	100		µg/L	100	10/17/2014 2:13:36 PM	R22004
Toluene	6300	100		µg/L	100	10/17/2014 2:13:36 PM	R22004
Ethylbenzene	870	100		µg/L	100	10/17/2014 2:13:36 PM	R22004
Xylenes, Total	11000	200		µg/L	100	10/17/2014 2:13:36 PM	R22004
Surr: 4-Bromofluorobenzene	113	66.6-167		%REC	100	10/17/2014 2:13:36 PM	R22004
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGP</b>
Fluoride	ND	0.50		mg/L	5	10/17/2014 5:13:03 PM	R21997
Chloride	94	2.5		mg/L	5	10/17/2014 5:13:03 PM	R21997
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/17/2014 5:13:03 PM	R21997
Bromide	ND	0.50		mg/L	5	10/17/2014 5:13:03 PM	R21997
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	10/17/2014 5:13:03 PM	R21997
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/17/2014 5:13:03 PM	R21997
Sulfate	ND	2.5		mg/L	5	10/17/2014 5:13:03 PM	R21997
<b>EPA METHOD 200.7: METALS</b>							Analyst: <b>JLF</b>
Calcium	100	5.0		mg/L	5	10/22/2014 3:55:34 PM	16020
Magnesium	34	5.0		mg/L	5	10/22/2014 3:55:34 PM	16020
Potassium	22	5.0		mg/L	5	10/22/2014 3:55:34 PM	16020
Sodium	580	10		mg/L	10	10/22/2014 4:02:13 PM	16020

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857

03-Nov-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB-16020	SampType:	MBLK	TestCode:	EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID:	16020	RunNo:	22075					
Prep Date:	10/22/2014	Analysis Date:	10/22/2014	SeqNo:	649308	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium ND 1.0

Magnesium ND 1.0

Potassium ND 1.0

Sodium ND 1.0

Sample ID	LCS-16020	SampType:	LCS	TestCode:	EPA Method 200.7: Metals					
Client ID:	LCSW	Batch ID:	16020	RunNo:	22075					
Prep Date:	10/22/2014	Analysis Date:	10/22/2014	SeqNo:	649309	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium 51 1.0 50.00 0 101 85 115

Magnesium 51 1.0 50.00 0 101 85 115

Potassium 50 1.0 50.00 0 101 85 115

Sodium 51 1.0 50.00 0 101 85 115

### 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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857

03-Nov-14

Client: APEX AZTEC

Project: Enterprise Gallegos #2

Sample ID	MB	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R21997	RunNo:	21997					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646536	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R21997	RunNo:	21997					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646537	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	101	90	110			
Chloride	4.6	0.50	5.000	0	92.3	90	110			
Nitrogen, Nitrite (As N)	0.97	0.10	1.000	0	97.1	90	110			
Bromide	2.4	0.10	2.500	0	96.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	96.8	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	94.5	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			

Sample ID	MB	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R21997	RunNo:	21997					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646591	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R21997	RunNo:	21997					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646592	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	97.3	90	110			

### 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857

03-Nov-14

Client: APEX AZTEC  
Project: Enterprise Gallegos #2

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R21997	RunNo:	21997					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646592	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.5	0.50	5.000	0	90.3	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.4	90	110			
Bromide	2.4	0.10	2.500	0	94.3	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	94.7	90	110			
Phosphorus, Orthophosphate (As P	4.7	0.50	5.000	0	93.1	90	110			
Sulfate	9.4	0.50	10.00	0	94.2	90	110			

## 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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410857

03-Nov-14

Client: APEX AZTEC  
Project: Enterprise Gallegos #2

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R22004	RunNo:	22004					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646795	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		97.6	66.6	167			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R22004	RunNo:	22004					
Prep Date:		Analysis Date:	10/17/2014	SeqNo:	646796	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	66.6	167			

## 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



# Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1410857

RcptNo: 1

Received by/date:	LM	10/17/14	
Logged By:	Michelle Garcia	10/17/2014 8:15:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	10/17/2014 10:55:48 AM	Michelle Garcia
Reviewed By:	CS	10/17/14	

## Chain of Custody

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

## Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☒ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

metals analysis: Added 0.5 mL HNO<sub>3</sub> to each for acceptable pH.

# of preserved bottles checked for pH: 1  
(<2 or >12 unless noted)  
Adjusted? yes  
Checked by: [Signature]

## Special Handling (if applicable)

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


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

- Additional remarks:

## 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.4	Good	Yes			

## CHAIN OF CUSTODY RECORD

 <b>APEX</b> Office Location <u>Aztec, NM</u>		Laboratory: <u>Hall Environmental</u> Address: <u>Albuquerque, NM</u> Contact: <u>Andy Freeman</u> Phone: <u>(505) 345-3975</u> PO/SO #: <u>Direct bill to Enterprise</u>		ANALYSIS REQUESTED <div style="display: flex; justify-content: space-around; font-size: 0.8em;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8021 BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Anions</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cations</div> </div>										Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>5.4</u> <div style="display: flex; justify-content: space-between; font-size: 0.6em;"> <span>1</span><span>2</span><span>3</span><span>4</span><span>5</span> </div> Page <u>1</u> of <u>1</u>	
		Project Manager <u>Heather Woods</u> Sampler's Name <u>Heather Woods</u> Sampler's Signature <u>Heather M. Woods</u>												Proj. No. <u>70304146035</u> Project Name <u>Enterprise Gallegos #2</u> No/Type of Containers _____	

Matrix	Date	Time	COED	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	Q/G	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)										
W	10/16/14	1320			<del>EW</del> EW-1			3	1				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">8021 BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Anions</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cations</div> </div>	1410857-001									
<del>           NPS            HW         </del>																							

Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush					
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
<u>Heather M. Woods</u>	<u>10/16/14</u>	<u>1720</u>	<u>[Signature]</u>	<u>10/17/14</u>	<u>0815</u>
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

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

NOTES: Direct Bill to Enterprise Field Services  
 Attn: Tom Long  
 Wb # 878837  
 Paykey RB21200  
 Verified analysis request will Heather.  
 Run all Anions. 12/10/17/14