Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

August 30, 2021

Submitted online via OCD E-Permitting:
https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/default.aspx

Mr. Cory Smith
New Mexico Energy, Minerals & Natural Resources Department – Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

RE: ***2020 Interim Remediation and Groundwater Monitoring Report*** (Ensolum, June 28, 2021)
Enterprise Field Services, LLC
Largo Compressor Station - Condensate Release (January 2008, et.al.)
County Road (CR) 379, Rio Arriba Co., NM [N 36.4855°, W 107.5578°]
NM EMNRD OCD RP: 3R-1001; AP-128; Incident Number: NBP0802953108

Dear Mr. Smith:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Services, LLC, is pleased to provide the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) with one electronic copy of the above-referenced report (2020 Interim Report) prepared by Ensolum, LLC (Ensolum) and dated June 28, 2021. The report is associated with the Enterprise Largo Station release of natural gas condensate liquids that occurred in January 2008 from a condensate storage tank ("Area 1") and subsequent historical areas of impact (Area 2 – Former Valve Box Area, Area 3 – Retention Pond Area and Area 4 - Compression and Dehydration Areas), located in Rio Arriba County, New Mexico (the "Site"). Regulatory oversight of the remediation activities at this Site is currently being shared by the OCD's Santa Fe (District 4) and Aztec (District 3) offices.

The activities detailed in the attached document include: 1) soil remediation (excavation) activities that were conducted in Area 3 between August 7, 2017 and May 2018, 2) the installation of an automated soil vapor extraction (SVE) and air sparing (AS) system in Area 1 (Former Condensate Storage Tank Area) during 2018 and subsequent operation and maintenance (O&M) of the system, and 3) semi-annual groundwater monitoring and sampling (SA-GWM&S) events that were conducted between January 1, 2019 and December 31, 2020 (collectively referred to as "the reporting period").

Based on the data contained in the Subject document, dissolved-phase hydrocarbon (DPH), or constituent of concern (COC) concentrations remain at the Site in excess of the applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Additionally, the DPH plume remains fully delineated. In the absence of an approval or response from the OCD regarding the previously submitted *Stage 1 Abatement Plan* (Ensolum, March 21, 2019), Enterprise is providing this report as a comprehensive update of Site remediation and monitoring activities. Based on the findings and conclusions included in the report, Enterprise plans to: 1) continue SA-GWM&S of all Site-related wells, 2) continue O&M activities of the SVE and AS system in Area 1 to reduce COC concentrations in soil and groundwater, 3) reinstall monitor wells that were removed in Area 3 during former excavation activities (as verbally approved by the OCD for internal plume delineation), and 4) prepare a *Stage 2 Abatement Plan* (if required) after concurrence that the *Stage 1 Abatement Plan* is deemed administratively complete

Enterprise appreciates the New Mexico EMNRD OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments or concerns, or need additional information regarding this Site, please feel free to contact me at (713) 381-8780, or via email at gemiller@eprod.com.

Sincerely,

Gregory E. Miller, P.G.
Supervisor, Environmental

Rodney M. Sartor, REM
Sr. Director, Environmental

cc: Landowner – Mr. John Berry and Mrs. Patricia Berry <PO Box 29, Dexter, NM 88230>
ec: Ensolum, Houston, TX – Mr. Marc E. Gentry <MGentry@ensolum.com>

P.O. Box 4324
Houston, Texas 77210-4324
713.381.6500

1100 Louisiana Street
Houston, Texas 77002-5227
www.epplp.com

APPROVED

Review of 2020 Interim Remediation and Groundwater Monitoring Report
Report: **Content satisfactory**
1. Follow recommendations stated within 2020 Interim Remediation and Groundwater Monitoring Report.
a. Report the interim remediation and groundwater monitoring results to OCD
b. Continue the SVE and AS activities to further reduce COC concentrations in Area 1 soils and groundwater
c. Add monitoring wells to assess the primary COC dissolved-phase groundwater plume in Area 3, where numerous monitoring wells were removed during excavation activities
d. Advance and sample an additional soil boring west of former soil boring SB-98 to evaluate remaining soils in this area
e. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022
f. Prepare a Stage 2 Abatement Plan after the Stage 1 Abatement Plan has been administratively completed and implemented (currently pending).

ENSOLUM

2020 Interim Remediation and Groundwater Monitoring Report

Property:

Largo Compressor Station
NE ¼ and SE ¼, S15 T26N R7W
Rio Arriba County, New Mexico

Groundwater Discharge Plan No. GW-211
New Mexico EMNRD OCD RP No. 3RP-1001, AP No. 128

June 28, 2021
Ensolum Project No. 05A1226001

Prepared for:

Enterprise Field Services, LLC
P.O. Box 4324
Houston, Texas 77210-4324
Attn: Mr. Gregory E. Miller, P.G.

Prepared by:

Ranee Deechilly
Environmental Scientist

Kyle Summers
Senior Project Manager

ENSOLUM

2020 Interim Remediation and Groundwater Monitoring Report
Executive Summary

This report documents the 2017-2020 remediation and 2019-2020 groundwater monitoring activities at the Largo Compressor Station site, referred to hereinafter as the "Site".

The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and is located off County Road (CR) 379 in Section 15, Township 26 North, Range 7 West in Rio Arriba County, New Mexico.

Site Background

During January 2008, a natural gas condensate release occurred at a former condensate storage tank battery (Area 1 - Former Condensate Storage Tank Area). The release was subsequently reported to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD). Initial response activities included soil boring installation and sampling to evaluate the extent of impact (*Geoprobe Investigation at Largo Compressor Station,* Lodestar Services Inc., May 2008). Results from the initial investigation activities indicated constituent of concern (COC) concentrations in soil and groundwater above the New Mexico EMNRD OCD closure criteria and the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). The condensate tanks (formerly located near groundwater monitoring well MW-7) were permanently removed from the facility and replaced by a new condensate storage tank battery in a different part of the facility.

During June 2009, potential petroleum hydrocarbon impact was discovered during construction at the new condensate storage tank battery in Area 2 (former valve box area), resulting in the removal of impacted soils.

During July 2009, historical petroleum hydrocarbon impact was discovered in Area 3 (retention pond area) during the construction of a stormwater retention pond. Analytical results of soil and groundwater samples collected from the retention pond excavation indicated COC concentrations above New Mexico EMNRD OCD closure criteria in soil and above applicable WQCC GQSs in groundwater. In addition, soil samples collected from four (4) test pits advanced outside the retention pond excavation exhibited COC concentrations above the New Mexico EMNRD OCD closure criteria.

Supplemental excavation, delineation, and remediation activities were performed between March/April 2008 and July 2017 in Areas 1 through 4, as documented in the following reports:

- *Report of Subsurface Investigation at Largo Compressor Station*, Lodestar Services, Inc., November 30, 2009
- *General Report EPCO Largo Station Summary Report,* Souder, Miller & Associates, January 10, 2010
- *Interim Remedial Investigation Report*, LT Environmental, Inc., (LTE), May 15, 2010
- *Groundwater Sampling Report*, LTE, September 10, 2010
- *Environmental Site Investigation*, Southwest Geoscience, March 24, 2011
- *Corrective Action Pilot Study Report*, Southwest Geoscience, October 10, 2011
- *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)*, Southwest Geoscience, June 31, 2012
- *Supplemental Site Investigation Report – (November 2012 and January 2013),* Southwest Geoscience, February 22, 2013
- *Remediation Plan (Corrective Action Status Report) Largo Compressor Station*, Southwest Geoscience, March 19, 2014

- *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events and Supplemental Site Investigation Report*, Apex, April 13, 2015
- *Interim Corrective Action (Area 3) and Treated Soil Sampling (Area 1) Report*, Apex, July 14, 2016
- *Soil Remediation Plan*, Apex, May 11, 2017
- *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action,* Apex, August 14, 2017

During August 2017, petroleum hydrocarbon-affected soil remediation (by excavation and disposal) was initiated to address impacts in Area 3. These remediation activities were completed in 2019. Additionally, a soil vapor extraction (SVE) and air-sparge (AS) remediation system was installed adjacent to the original 2008 condensate tank release location (Area 1) during April 2018 and was placed into service in December of 2019.

During March 2019, Enterprise submitted a *Stage 1 Abatement Plan* for this Site to the New Mexico EMNRD OCD and a revised *Stage 1 Abatement Plan*, dated May 22, 2019, was subsequently submitted to the New Mexico EMNRD OCD. The New Mexico EMNRD OCD has not responded or approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring at the Site. In the absence of an approved schedule pending the approval of the Stage 1 Abatement Plan, the *2020 Interim Remediation and Groundwater Monitoring Report* serves as an update for recently completed or ongoing remediation and monitoring activities at the Site.

Findings based on characterization, remediation, and groundwater monitoring activities that were implemented at the Site between 2017 and 2020 are as follows:

Site Characterization (2017-2018)

- During the 2017-2018 site characterization, 33 soil borings were advanced in Areas 2 and 3 to further define the extent of petroleum hydrocarbon impact and obtain additional data for remediation contractor performance estimation/bids. Two (2) soil borings were completed as two (2) inch diameter SVE test (SVET) wells. Eighty-two (82) soil samples were collected and submitted for analysis. Soil samples collected from soil borings/well borings SB-92, SB-96, SB-98, SB-102, SB-104, SB-106, SB-107, SVET-1, SVET-2, SB-112, and SB-116 through SB-119 exhibited COC concentrations above the New Mexico EMNRD OCD closure criteria. Soil associated with each of the affected boring locations was later removed by excavation.

- Groundwater samples collected from monitoring wells MW-7 and MW-37 were submitted for biochemical oxygen demand (BOD), chemical oxygen demand (COD), nitrate, nitrite, sulfate, and chloride analysis. The groundwater samples collected from monitoring wells MW-7 and MW-37 exhibited sulfate concentrations above the WQCC Domestic Water Supply Standards (DWSSs).

- Based on results from four (4) geotechnical soil samples collected from soil borings SB-97 and SB-107, the estimated hydraulic conductivity for silt and clay located in Area 3 averages 5.20 $x10^{-7}$ centimeter per second (cm/sec), which is equivalent to 1.47$x10^{-3}$ feet per day.

Soil Remediation (Area 3) (2017-2019)

- During August 2017, Enterprise initiated soil remediation activities in Area 3. Remediation activities were performed intermittently between 2017 and 2019. The total number of composite soil samples collected from the excavation for laboratory analysis was 144. In addition, 11 composite soil samples were collected from stockpiled soils to evaluate the potential to reuse the soil as backfill or top cover. Due to the presence of groundwater, and based on verbal on-Site New Mexico EMNRD OCD guidance, excavation floor samples were not collected.

- Former soil boring SB-98 was used as a control point when Enterprise was initially planning on excavating only heavily impacted soils and remediating the remaining impact in situ. An additional soil

boring is planned at the edge of the former excavation west of former soil boring SB-98 to further evaluate soils in that area. Based on laboratory analytical results, the soils remaining in place in all other portions of the former Area 3 excavation do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- Approximately 68,598 cubic yards of hydrocarbon-affected soils and 270 barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc. (Envirotech) landfarm located near Hilltop, New Mexico for disposal/remediation. This total includes drill and hydro-excavation cuttings from Area 1 and Area 2. In addition, approximately 4,771 bbls of potentially affected subsurface water recovered from the open excavation was transported to Basin Disposal, Inc., located near Bloomfield, New Mexico for final disposal. The excavation was ultimately backfilled with imported fill and segregated laboratory confirmed stockpiled soil that was contoured to surrounding grade.

Soil and Groundwater Remediation (Area 1) (2018-2020)

- Thirteen (13) additional soil borings were advanced in Area 1 during 2018. Six (6) soil borings were completed as air sparge wells, and seven (7) soil borings were completed as SVE wells. Twelve (12) soil samples were collected from the soil borings and submitted for BTEX and TPH analysis. Soil samples collected from soil borings SVE-1 through SVE-4 exhibited TPH concentrations above the applicable New Mexico EMNRD OCD closure criteria. The SVE/AS system was activated in December 2019.

- Based on analytical results from the SVE emission samples that were collected between December 2019 and December 2020 volatile organic compound concentrations are decreasing as a result of the SVE/AS activities.

Groundwater Monitoring (2019 and 2020)

- Groundwater analytical data collected from the Site indicates that the petroleum hydrocarbon impact to the shallow groundwater-bearing unit is delineated within the existing monitoring well network.

- The groundwater flow direction at the Site is generally towards the northwest, with an apparent average gradient of 0.004 feet per foot (ft/ft) across the Site.

- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 microgram per liter (µg/L) in groundwater samples collected from monitoring wells MW-7 and MW-48 during the June 2019 and December 2019 sampling events and in the groundwater sample collected from monitoring well MW-48 during the October 2020 sampling event (see footnote in report). The groundwater samples collected from the remaining monitoring wells during 2019 and 2020 sampling events do not indicate COC concentrations above the applicable WQCC GQSs (see footnote in report).

- Benzene concentrations at monitoring well MW-48 continue to fluctuate, and it appears that benzene concentrations at monitoring well MW-7 are decreasing due to the SVE and AS activities in Area 1.

Ensolum, LLC (Ensolum) offers the following recommendations:

- Report the interim remediation and groundwater monitoring results to the New Mexico EMNRD OCD.

- Continue the SVE and AS activities to further reduce COC concentrations in Area 1 soils and groundwater.

- Add monitoring wells to assess the primary COC dissolved-phase groundwater plume in Area 3 where numerous monitoring wells were removed during excavation activities.

- Advance and sample an additional soil boring west of former soil boring SB-98 to evaluate remaining soils in this area.
- Continue groundwater monitoring at the Site.
- After the Stage 1 Abatement Plan has been fully approved and implemented, prepare a Stage 2 Abatement Plan if required.

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1.0 INTRODUCTION

This report documents the 2017-2020 remediation and 2019-2020 groundwater monitoring activities at the Largo Compressor Station.

On May 11, 2017, a *Soil Remediation Plan* prepared by Apex TITAN, Inc., (Apex) on behalf of Enterprise Field Services, LLC/Enterprise Products Operating LLC (Enterprise) was submitted to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD). The plan included Enterprise's proposed plan to address the remediation of constituents of concern (COCs) remaining at the Site in excess of the applicable New Mexico soil and groundwater standards. On May 18, 2017, the New Mexico EMNRD OCD approved excavation as a remedial option, along with conditions of approval. The soil remediation activities identified herein are based on the remediation plan approved by the New Mexico EMNRD OCD and guidance provided by New Mexico EMNRD OCD representatives while at the Site.

In February 2019, Enterprise assigned management of the Largo Compressor Station project to Ensolum, LLC (Ensolum). During March 2019, Enterprise submitted a *Stage 1 Abatement Plan* for this Site to the New Mexico EMNRD OCD and a revised *Stage 1 Abatement Plan* dated May 22, 2019, was subsequently submitted to the New Mexico EMNRD OCD. The New Mexico EMNRD OCD has not responded to or approved the plan at this time, and Enterprise has resumed semi-annual groundwater monitoring at the Site. In the absence of an approved schedule pending the approval of the Stage 1 Abatement Plan, the *2020 Interim Remediation and Groundwater Monitoring Report* serves as an update for recently completed or ongoing remediation and monitoring activities at the Site.

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC
Site Name:	Largo Compressor Station (Site)
Location:	36.4855° North, 107.5578° West Northeast (NE) and Southeast (SE) ¼, Section 15 Township 26 North, Range 7 West Off County Road (CR) 379 Rio Arriba County, New Mexico
Property:	Enterprise and Private Land (John and Patricia Berry)
Regulatory:	New Mexico EMNRD OCD

The Site is a natural gas compressor station designed to dehydrate and compress natural gas gathered from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and currently includes two (2) compressor engines, a dehydration unit and related treater, one (1) bullet storage tank, a new condensate storage tank battery containing seven (7) tanks, inlet scrubbers, a control room, a stormwater retention pond, and an office/shop building.

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2** of **Appendix A**. The locations of the environmental wells are depicted on **Figure 3** in relation to pertinent Site features and general Site boundaries.

The areas of known or potential impact at the Site have been previously designated as Areas 1 through 4 in prior New Mexico EMNRD OCD correspondence. Each of the areas is depicted on **Figure 3** in relation to pertinent Site features and general Site boundaries. These areas are briefly described below:

Area 1 (Former Condensate Storage Tank Area)

Area 1 is defined as the northwestern portion of the Site and includes the former condensate storage tank battery associated with on-going investigation/monitoring and/or corrective actions since a release from a condensate storage tank valve was reported to the New Mexico EMNRD OCD in January 2008. The old condensate storage tanks were removed from Area 1 during July/August 2012. During the summer and fall of 2013, Enterprise removed hydrocarbon-affected soils from the former tank battery footprint. The soil vapor extraction (SVE) and air sparge (AS) system (installed during 2018) was placed into service during 2019. Additional detail regarding the investigative and corrective activities at Area 1 are provided in the following reports:

- *Report of Subsurface Investigation at Largo Compressor Station*, Lodestar Services, Inc., November 30, 2009
- *Interim Remedial Investigation Report*, LT Environmental, Inc. (LTE), May 15, 2010
- *Groundwater Sampling Report*, LTE, September 10, 2010
- *Environmental Site Investigation – Largo Compressor Station (GW-211)*, Southwest Geoscience (SWG), March 24, 2011
- *Corrective Action Pilot Study Report*, SWG, October 10, 2011
- *Remediation Plan (Corrective Action Status Report) Largo Compressor Station,* SWG, March 19, 2014
- *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events) and Supplemental Site Investigation Report*, Apex TITAN, Inc., (Apex), April 13, 2015
- *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action*, Apex, August 14, 2017

Area 2 (Former Valve Box Area)

Area 2 includes the new condensate storage tank battery and the immediate surrounding area. This area is in the north central portion of the Site, immediately south of CR 379. During the construction of the new tank battery in June 2009, petroleum hydrocarbon-affected soils were encountered in association with a former valve box and related appurtenances. These impacts were subsequently remediated. Additional detail and references regarding the investigative and prior corrective action activities at Area 2 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211)* (SWG, March 24, 2011).

Area 3 (Retention Pond Area)

Area 3 encompasses the east portion of the Site including the stormwater retention pond. Historical petroleum hydrocarbon-affected soil and groundwater were identified during the construction of the retention pond in July of 2009, which may have originated from historic oil and contact water treatment and/or storage in the area of the current retention pond. Area 3 soil removal activities were completed during 2019. Additional details regarding previous investigative and corrective activities at Area 3 are provided in the following reports:

- *Environmental Site Investigation – Largo Compressor Station (GW-211)*, SWG, March 24, 2011
- *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)*, SWG, June 31, 2012
- *Supplemental Site Investigation Report – (November 2012 and January 2013)*, SWG, February 22, 2013
- *Interim Corrective Action (Area 3) and Treated Soil Sampling (Area 1) Report,* Apex, July 14, 2016
  Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action, Apex, August 14, 2017

Area 4 (Compression and Dehydration Area)

Area 4 comprises the remainder of the Site, which includes the active compression and treatment area that includes two (2) compressor engines, a dehydration unit and related inlet scrubbers. Soil and groundwater investigation activities conducted in Area 4 are provided in the following reports:

- *Environmental Site Investigation – Largo Compressor Station (GW-211)*, SWG, March 24, 2011

- *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)*, SWG, June 31, 2012

1.2 Chronology of Events

Significant events and related activities associated with the Site, including the results of Site investigation activities and corrective action completed prior to activities described within this report, are provided in the following summary:

January 2008

Area 1: The release was discovered that resulted from a frozen valve on a condensate storage tank. The release flowed into the below-grade drain tanks, which subsequently overflowed into the surrounding containment. The release was subsequently reported to the New Mexico EMNRD OCD.

March/April 2008

Area 1: *Geoprobe Investigation at Largo Compressor Station (Lodestar, May 16, 2008)*: Initial field investigation activities were performed by Lodestar Services, Inc., (Lodestar) during March and April of 2008. Nineteen (19) soil borings (B-1 through B-19) were advanced at the Site with total depths ranging from 14.5 feet below grade surface (bgs) to 21 feet bgs. Five (5) of the 19 soil borings completed as one (1) inch diameter piezometers (P-1 though P-5).

Lodestar collected 29 soil samples from the 19 soil borings and submitted the samples for analysis of total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). In addition, five (5) groundwater samples collected from the piezometers were submitted for TPH GRO/DRO and BTEX analysis. Soil samples collected from soil borings B-1, B-2, B-5, and B-14 exhibited TPH GRO/DRO concentrations above the New Mexico EMNRD OCD standards. The groundwater samples collected from piezometers P-1, P-2, and P-3 exhibited benzene, toluene, and/or total xylene concentrations above the Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

August/September 2008

Area 1: Enterprise submitted a notice to the New Mexico EMNRD OCD that the condensate storage tank system was scheduled to be upgraded/replaced.

September/October 2008

Areas 1 through 4: The New Mexico EMNRD OCD approved Enterprise's planned storage tank modification with the condition that Enterprise file an appropriate closure plan for the old tank battery.

June/July 2009

Area 2: An area of petroleum hydrocarbon impact was discovered during construction activities at the new condensate storage tank battery. The source of impact is presumed to be a valve box from a storage tank formerly utilized at this location. Souder, Miller, & Associates (SMA) assisted with the assessment activities and Foutz & Bursum (F&B) performed the excavation activities. Exploratory "potholes" were advanced to investigate the extent of subsurface contamination. Groundwater was encountered at approximately 13 feet bgs during these activities. On June 26, 2009, SMA collected a groundwater sample from pothole #1 (PH #1). Based on the laboratory analytical data, benzene was identified at a concentration exceeding the WQCC GQSs. Based on field observations, soil screening data, and laboratory analytical data, F&B excavated the impacted soils, resulting in a

final excavation approximately 100 feet long by 30 feet wide and 13 feet deep. SMA collected a total of four (4) soil confirmation samples from the sidewalls of the Area 2 excavation and one (1) soil confirmation sample from the excavated soil stockpile and submitted them for analysis of TPH GRO/DRO. The confirmation soil samples did not exhibit COC concentrations above the New Mexico EMNRD OCD standards. The Area 2 excavation was backfilled in July 2009 with unaffected soil and gravel. SWG subsequently collected groundwater samples from this approximate area (TSW-44 and TSW-45) and groundwater impacts were not observed (*Environmental Site Investigation* (SWG, March 24, 2011)*).*

July 2009

Area 1: *Inspection Report – New Mexico OCD (July 9, 2009):* Onsite inspection by New Mexico EMNRD OCD required Enterprise to conduct tank integrity testing, improve leak detection monitoring, liner repair, soil and groundwater remediation, and system repair or replacement.

Area 1: *Response to Inspection Report – Enterprise (July 23, 2009):* Enterprise submitted a work plan to perform additional investigation activities at the Site.

July/August 2009

Area 3: Petroleum hydrocarbon impact was discovered in Area 3 during the excavation of a stormwater retention pond at the facility. Initial Form C-141 was submitted to New Mexico EMNRD OCD on July 6, 2009.

On July 15, 2009, a cement tank containing water (possibly an old cistern or part of the septic system) was unearthed in the vicinity of the planned stormwater retention pond. SMA collected a water sample from the tank, and subsequent BTEX analyses indicated the tank water did not exhibit BTEX concentrations in excess of the WQCC GQSs. Soil confirmation samples were collected below the water table (BWT) on the north side of the retention pond excavation and on the northeast wall (NE Wall) of the retention pond excavation. Sample results indicated the “BWT” and “NE Wall” samples contained TPH GRO/DRO, benzene, and/or total BTEX concentrations exceeding the New Mexico EMNRD OCD standards. A groundwater sample (GE) was collected at the BWT soil sample location and was submitted for analysis of BTEX. The GE groundwater sample exhibited benzene, toluene, and total xylenes concentrations exceeding the WQCC GQSs.

On July 16, 2009, SMA installed four (4) test pits, each completed to a total depth of approximately 13 feet bgs, to the north and east of the retention pond excavation. Groundwater was encountered in each of the test pits at approximately 13 feet bgs. SMA collected one (1) soil sample just above the water table in each of the test pits and field screened them for the presence of volatile organic compounds (VOCs). Based on visual observations and field screening results of the soil samples, it was concluded that “soil impacts likely extended beyond a reasonable area for excavation”. Enterprise elected to stop extending the excavation and to remove any visibly contaminated soil remaining in the existing excavation of Area 3. SMA subsequently collected a groundwater sample (SWCRP) from the southwest corner of the retention pond excavation and submitted it for analysis of BTEX. The SWCRP groundwater sample exhibited benzene and total xylenes concentrations above the WQCC GQSs.

	The excavated soils, totaling approximately 1,701 cubic yards (although one source indicates 3,000 cubic yards), were transported off-site and disposed of at the Envirotech, Inc., (Envirotech) landfarm near Hilltop, New Mexico. Additionally, a vacuum truck was utilized to remove approximately 1,120 barrels (bbls) of hydrocarbon-impacted groundwater from the excavation prior to backfilling. The excavation was backfilled with approximately 1,360 cubic yards of unaffected material, creating a four (4) to five (5) foot deep depression for use as the stormwater retention pond.
August 2009	Area 1: *Report of Subsurface Investigation at Largo Compressor Station* (Lodestar, November 30, 2009)*:* During August 2009, Lodestar performed a subsurface field investigation at the Site. Ten (10) additional soil borings (B-21 through B-30) were advanced at the Site. Additionally, two (2) hand auger borings (HA-1 and HA-2) were advanced within the former condensate storage tank containment berm. Four (4) of the ten (10) soil borings were completed as permanent two (2) inch groundwater monitoring wells (MW-6 through MW-9). Soil samples collected from soil borings B-22 (15 feet bgs), B-23 (15 feet bgs), B-24 (15 feet bgs), B-29 (18 feet bgs), and Hand Auger-1 (14 feet bgs) exhibited total BTEX and/or TPH GRO/DRO concentrations above New Mexico EMNRD OCD standards. The groundwater samples collected from piezometers P-2 and P-3 and monitoring well MW-7 exhibited benzene, toluene, and/or total xylenes concentrations above the WQCC GQSs. Non-aqueous phase liquid (NAPL) was reportedly present in piezometer P-1. Lodestar concluded that soil and groundwater impact was limited to the bermed area and slightly outside of the bermed area in the down-gradient (northwest) direction.
November 2009/ February 2010	Area 1: *November 2009 Groundwater Sampling* (Lodestar, December 17, 2009)*, Quarterly Groundwater Monitoring Report* (Lodestar, April 20, 2010)*:* Groundwater sampling events were performed during November 2009 and February 2010 by Lodestar. The groundwater samples collected from groundwater monitoring wells MW-7 and P-2 (renamed as MW-11) exhibited benzene and/or total xylenes concentrations above the WQCC GQSs. NAPL was identified in piezometer P-1 during each of these two groundwater monitoring events.
January 2010	Area 1: *Largo Compressor Station Work Plan for Groundwater Remediation GW-211* (Lodestar, December 31, 2009)*:* Enterprise submitted a groundwater remediation work plan for the Site detailing the proposed injection of Oxygen Release Compound (ORC) and utilization of sorbent socks to the New Mexico EMNRD OCD.
February 2010	Area 1: The New Mexico EMNRD OCD approved the December 31, 2009 work plan with conditions.
March/April 2010	Area 1: *Interim Remedial Investigation Report* (LTE, May 15, 2010)*:* During March of 2010, LT Environmental, Inc., (LTE), formerly Lodestar, advanced two (2) additional soil borings at the Site to total depths ranging from approximately 31 to 32 feet bgs. Groundwater was encountered in both soil borings with static water levels of 20 and 22 feet bgs. The two (2) soil borings were subsequently completed as two (2) inch groundwater monitoring wells (MW-15 and MW-16). LTE also replaced piezometer P-1 with a four (4) inch

	groundwater monitoring well (MW-12) to allow NAPL collection utilizing absorbent socks. Additionally, piezometers P-2, P-3, P-4, and P-5 were replaced with two (2) inch groundwater monitoring wells MW-11, MW-3R, MW-14, and MW-13, respectively. Area 1: During April 2010, LTE collected groundwater samples from the on-Site groundwater monitoring wells for TPH GRO/DRO and BTEX analyses. The groundwater samples collected from monitoring wells MW-7 and MW-12 exhibited benzene, toluene, and/or total xylenes concentrations above the WQCC GQSs.
May 2010	Area 1: A final C-141 was submitted to the New Mexico EMNRD OCD, indicating the need for additional studies. Areas 1 through 4: On May 27, 2010, Enterprise submitted an extension request to the New Mexico EMNRD OCD pertaining to investigation activities at the Largo Compressor Station, citing a planned facility-wide investigation.
June 2010	Areas 1 through 4: *Proposed Facility-Wide Soil and Groundwater Investigation* (LTE, June 8, 2010): Enterprise submitted a work plan to provide a Site-wide assessment of the Largo Compressor Station. Areas 1 through 4: The New Mexico EMRND OCD approved the proposed work plan submitted on June 10, 2010 with conditions.
June/July 2010	Area 1: *Groundwater Sampling Report* (LTE, September 10, 2010)*:* During June of 2010, LTE advanced ten (10) four (4) inch boreholes utilizing hollow stem augers. The boreholes were advanced to the north and north-northwest of the containment berm. A slurry of 65% ORC solids and water was poured through the hollow stem augers at each borehole (approximately 30 pounds of ORC per borehole) to create a plug of ORC encompassing approximately five vertical feet, including the smear zone. A two (2) foot thick bentonite seal was installed above the ORC slurry and the remainder of the borehole was backfilled with clean soil. Area 1: During July 2010, LTE collected groundwater samples from the on-Site groundwater monitoring wells and submitted them for TPH GRO/DRO and BTEX analyses. The groundwater samples collected from monitoring wells MW-3R, MW-7, MW-11, MW-12, MW-15, and MW-16 exhibited benzene and/or total xylene concentrations above the WQCC GQSs.
November 2010	Areas 1 through 4: During November 2010, SWG advanced 17 soil borings across the facility as part of the Site-wide environmental investigation. Four (4) of these soil borings were completed as temporary sampling wells to allow the collection of a single groundwater sample prior to plugging and abandonment. The remaining 13 soil borings were completed as permanent two (2) inch diameter monitoring wells.
February/March 2011	Area 1: *Corrective Action Work Plan* (SWG, February 18, 2011): Enterprise proposed an in-situ chemical oxidation (ISCO) pilot study at the condensate storage tank area.

	Areas 1 through 4: *Environmental Site Investigation* (SWG, March 24, 2011): Enterprise submitted a report to the New Mexico EMNRD OCD documenting the facility-wide investigation findings and subsequent groundwater monitoring results. Analytical results from the investigation confirmed the presence of hydrocarbon-affected soil and groundwater in the vicinity of the retention pond (Area 3). Additionally, benzene was identified at concentrations slightly above the WQCC GQSs in groundwater from monitoring well MW-39, located near the current compressors (Area 4). The groundwater sample collected from monitoring well MW-42, located at a hydraulically up-gradient boundary of the Site, exhibited a total dissolved solids (TDS) concentration of 75,400 milligrams per liter (mg/L).
May 2011	Area 1: Enterprise performed "pilot study" ISCO activities at the condensate storage tank release area. Approximately 3,500 gallons of injectate were introduced to the subsurface near monitoring well MW-12.
October 2011	Area 1: *Corrective Action Pilot Study Report* (SWG, October 10, 2012): Enterprise submitted a report to the New Mexico EMNRD OCD documenting the "pilot study" implementation. Field observations during ISCO activities indicated historically impacted soils remained near the condensate tanks.
March 2012	Areas 3 and 4: *SSI Work Plan* (SWG, January 12, 2012): Enterprise proposed additional field activities to further delineate dissolved-phase groundwater impact in Areas 3 and 4. Enterprise initiated the proposed investigative activities by installing six (6) monitoring wells to further evaluate COCs at the Site.
June 2012	Areas 3 and 4: *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report* (SWG, June 31, 2012): Enterprise submitted a report to the New Mexico EMNRD OCD which documented the initial supplemental site investigation (SSI) activities for Areas 3 and 4. The report included results from the quarterly monitoring event that was performed following the installation of the six (6) additional monitoring wells.
November 2012	Area 3: Enterprise resumed the supplemental Site investigation, focusing on additional soil and groundwater COC delineation in Area 3.
March 2013	Area 3: Enterprise submitted the *Supplemental Site Investigation Report – (November 2012 and January 2013)* (SWG, February 22, 2013) to the New Mexico EMNRD OCD documenting SSI activities for Area 3. The report documented the soil and groundwater sampling that was performed during the SSI activities, and identified a potential second source of impact near the retention pond area. Enterprise proposed remediation of soils in Areas 1 and 3 in the *Corrective Action Work Plan (Area 1 and Area 3 – Soils)* (SWG, March 11, 2013.)
May 2013	Areas 1 and 3: *Largo Compressor Station – Background Sampling* (SWG, June 18, 2013): Enterprise performed soil and groundwater sampling in the southeast portion of the Site to evaluate current background conditions. These activities were performed in advance of the proposed sourcing of backfill material from this area, and in advance of the proposed use of the area for soil treatment.

June through November 2013	Area 1: *Corrective Action Status Report (Area 1 – Soils)* (SWG, March 19, 2014): Enterprise submitted a letter report to the New Mexico EMNRD OCD documenting the construction of the treatment cell area and corrective action activities performed in Area 1.
August through October 2014	Area 1: *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events) and Supplemental Site Investigation Report* (Apex, April 13, 2015): Enterprise installed three (3) additional groundwater monitoring wells downgradient of monitoring well MW-47 (which had been damaged by heavy equipment).
July 2016	Area 3: *Interim Corrective Action Report (Area 3) and Treated Soil Sampling (Area 1) Report* (Apex, July 14, 2016): Enterprise performed initial corrective action activities in Area 3 by removing hydrocarbon-affected soils in the vicinity of the retention pond. The previously treated soils from the former remediation of Area 1 were sampled and subsequently removed from the cells to make room in the upper treatment cells for the Area 3 soils.
May 2017	Area 1 and 3: *Soil Remediation Plan* (Apex, May 11, 2017): Enterprise submitted a Soil Remediation Plan to the New Mexico EMNRD OCD documenting proposed strategies to address the hydrocarbon soil impacts in Area 1 and Area 3.
June/July 2017	Area 3: Enterprise initiated a limited site investigation, soil vapor extraction SVE pilot testing, and remediation activities in Area 3. Impacted soils in Area 3 are being removed by excavation and transported off Site for disposal/remediation.
August 2017	Area 1 and 3: *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action* (Apex, August 14, 2017): Enterprise submitted a Plan Amendment to the New Mexico EMNRD OCD documenting the results of the SVE pilot testing that occurred at the Site and the proposed continued strategies for remediation of impacted soil and groundwater at the Site. The Area 3 soil remediation (by excavation) activities are initiated.
September 2017	Area 1 and 3: *Soil Vapor Extraction and Air Sparging Work Plan* (Apex, September 15, 2017, updated November 14, 2017): Enterprise proposed SVE and AS field activities for remediation of impacted soil and groundwater at the Site.
April 2018	Area 1: Enterprise installed seven (7) SVE and six (6) AS wells in Area 1.
July/September 2018	Area 3: Enterprise advanced 14 soil borings north of the Largo facility fence in Area 3 to further delineate and evaluate the extent of hydrocarbon impact in soil. Additional excavation in this area continued into 2019.
February 2019	Enterprise assigned management of the project to Ensolum.

March/May 2019	Area 1 and 3: *Stage 1 Abatement Plan* (Ensolum, March 21, 2019, Revised May 22, 2019): Enterprise submitted a Stage 1 Abatement Plan to the New Mexico EMNRD OCD documenting Enterprise's proposed strategies for remediation of impacted soil and groundwater at the Site.
December 2020	Ensolum received final solid waste documentation from the Envirotech landfarm near Hilltop, New Mexico for the 2017-2019 characterization and remediation activities.
April 2021	Ensolum received final liquid waste documentation from Basin Disposal, Inc., (Basin Disposal) for the 2017-2019 remediation activities.

1.3 Project Objectives

The primary objectives of the soil remediation and groundwater monitoring were to (i) further define the extent of hydrocarbon impact; (ii) obtain additional analytical and geotechnical data to facilitate remedial option evaluations and designs; (iii) remove/reduce COCs in soil and groundwater; (iv) further evaluate the apparent source of the historical release; and (v) further evaluate the concentrations of COCs in groundwater at the Site.

- **Section 3.0** of this report details the Site characterization activities that were implemented in 2017 and 2018.
- **Section 4.0** describes the soil remediation activities that were implemented in Area 3 from 2017 through 2019.
- **Section 5.0** describes the SVE and AS system installation that was performed in 2018, as well as the subsequent SVE/AS remediation activities that are ongoing.
- **Section 6.0** describes four (4) semi-annual groundwater monitoring events that were implemented between January 2019 and December 2020.

2.0 SOIL AND GROUNDWATER CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. The soil and groundwater activities described herein were initiated under the approved Soil Remediation Plan which predates the NMAC 19.15.29 rule revision that occurred in 2018. The guidance available at that time included the "*NMOCD Guidelines for Remediation of Leak, Spills and Releases, August 13, 1993*" as well as the previous version of NMAC 19.15.29 *Release Notification*. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico WQCC GQS (NMAC 20.6.2 *Groundwater and Surface Water Protection*) to evaluate groundwater conditions.[1]

Ensolum utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD imaging database to determine the appropriate Site ranking.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

and includes an interactive map). Numerous PODs are located within the same Public Land Survey System (PLSS) section as the Site as well as in adjacent PLSS sections. The average depth to water for the PODs is approximately 20 feet below grade surface (bgs). Two (2) of these PODs (SJ-0070 and SJ-0071) with depths to water of 22 and 26 feet bgs, respectively, are deep wells owned by Enterprise and are out-of-service. Two (2) PODs (SJ-02421 and SJ-02422), with depths to water of 35 and 12 feet bgs, respectively, are located on a private ranch west of the Largo facility, presumably on the other side of Palluche Wash near the residence and outbuildings. The depth to water for the groundwater monitoring wells located on Site ranges from approximately nine (9) feet bgs to 30 feet bgs. Supporting documentation is provided in **Appendix B**.

- Two (2) cathodic protection wells were identified within one mile of the Site. Both cathodic protection wells are located on Encinada Mesa. The records for the cathodic protection well located near the Rincon Unit No. 102 &15 well location (Sec11, T26N, R7W) indicate a depth to water of 105 feet bgs. The records for the cathodic protection well located near the Rincon Unit 304M DK/MV, Rincon Unit 93 PC well location (Unit P, Sec11, T26N, R7W) indicate a depth to water of 220 feet bgs. Supporting documentation is provided in **Appendix B**.

- The Site is located within 300 feet of a New Mexico EMNRD OCD-defined continuously flowing watercourse or significant watercourse. The Largo Canyon Wash is located approximately 300 feet from the nearest monitoring well that exhibits petroleum hydrocarbon impact.

- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.

- The Site is not located within 300 feet from a permanent residence, school, hospital, institution, or church. The nearest residence is located approximately 1,700 feet west of the Largo facility.

- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site. The two (2) Enterprise owned water wells are upgradient of the impacted areas and are out of service.

- No viable fresh water consumptive wells or springs were identified within 1,000 feet of the Site. The two (2) water wells owned by Enterprise are located within 1,000 feet of the Site.

- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.

- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is located within 300 feet of a wetland. A freshwater emergent wetland is located approximately 100 feet north of monitoring well MW-49.

- Based on information identified on the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.

- The Site is not located within an unstable area.

- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not located within a 100-year floodplain.

The soil closure criteria listed in the following table are those approved by the New Mexico EMNRD OCD in 2017 for specific historical releases and the associated remediation activities described in the *Soil Remediation Plan* (Apex, May 11, 2017).

Closure Criteria for Soils Impacted by a Release		
Constituent*	Method	Limit
TPH (GRO+DRO+MRO)[1]	EPA SW-846 Method 8015	100 mg/kg
BTEX[2]	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

*Constituents are measured in milligrams per kilogram (mg/kg)
[1] – Total Petroleum Hydrocarbon (TPH). Gasoline Range Organics (GRO). Diesel Range Organics (DRO). Motor Oil/Lube Oil Range Organics (MRO)
[2] – Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX)

3.0 SITE CHARACTERIZATION (2017-2018)

During May 2017, the *Soil Remediation Plan* (Apex, May 11, 2017) was submitted to the New Mexico EMNRD OCD. The remediation plan outlined Enterprise's proposed plans to complete the remediation of affected soils at the Site. During the review process, and with approval by the New Mexico EMNRD OCD, Enterprise implemented the initial course of action outlined in the plan – collect additional delineation data.

During June 2017, delineation activities were initiated in Area 3. Prior to delineation activities, the hollow-stem auger (HSA) and hand auger soil boring locations were "daylighted" to approximately 12 feet bgs and four (4) feet bgs, respectively, utilizing a hydro-excavator. Nineteen (19) soil borings were advanced at the Site by Apex. Fifteen (15) of the soil boring/well boring locations (SB-91 through SB-100, SB-104 through SB-106, SVE test (SVET)-1 and SVET-2) were advanced utilizing a hand auger (from four (4) feet bgs to 12 feet bgs) and HSA drilling rig (from 12 feet bgs to termination). Four (4) soil borings (SB-101 through SB-103 and SB-107) were advanced utilizing a hand auger only.

Between July and September 2018, six (6) additional soil borings (SB-108 through SB-113) were advanced north of county road (CR) 379 utilizing a hand auger and eight (8) additional soil borings (SB-114 through SB-121) were advanced south of CR-379 utilizing a Geoprobe® direct-push rig. Prior to investigation activities, Geoprobe® soil boring locations were "daylighted" by hydro-excavation to approximately six (6) feet bgs.

PID readings of samples collected from the 2017-2018 soil borings ranged from zero (0) parts per million (ppm) to 3,890 ppm (SB-102 @ 8'-9'). The field screening results are presented on soil boring logs included in **Appendix C**. **Figure 4** (**Appendix A**) identifies the approximate soil boring/well sample locations.

3.1 Test Well Installations (2017-2018 Characterization)

Two (2) soil borings completed in Area 3 during June 2017 were completed as soil vapor extraction test (SVET) wells. The SVET wells were completed using the following methodology:

- Installation of 10 feet of two (2) inch diameter, 0.010-inch machine-slotted polyvinyl chloride (PVC) well screen with a threaded bottom cap;
- Installation of two (2) inch inside diameter, threaded flush joint PVC riser pipe to above the ground surface;
- Addition of pre-sieved, 10/20 grade, annular silica sand pack from the bottom of the soil boring to one (1) feet above the top of the well screen;
- Placement of two (2) or more feet of hydrated bentonite pellets above the sand;
- Addition of cement/bentonite slurry to the surface; and,

- Installation of an above-grade, steel-protective riser with an integrated padlock hasp.

The well completion details are presented on the soil boring logs included in **Appendix C**. The SVET wells were permitted and approved by the New Mexico OSE. The approved permits are provided in **Appendix D**. Subsequent to the completion of the SVET wells a SVE pilot test was implemented during July 2017. A summary of the pilot test is included in the *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action* (Apex, August 17, 2017).

3.2 Soil Sampling Program (2017-2018 Characterization)

The soil samples from the 2017 investigation activities were collected continuously, utilizing five-foot core barrel samplers (on the HSA drilling rig), or four-foot core barrel samplers (Geoprobe® direct-push drilling rig) or were collected directly from the hand auger. Samples and drill cuttings were observed to document visual and olfactory evidence of petroleum hydrocarbons. A field headspace analysis was conducted on each available soil sample interval by placing the portion of the sample designated for field screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a PID capable of detecting VOCs. The PID was calibrated utilizing an isobutylene standard prior to use in the field.

During the completion of each soil boring, an Apex professional documented the subsurface lithology, color, and moisture content, and constructed a continuous profile of the soil column from the ground surface to the boring terminus. Soil samples from each boring location were visually inspected and classified in the field. The lithology observed during the advancement of soil borings generally consisted of silty sand, silty clay, clayey silt, clay, or sand. Detailed lithologic descriptions are presented on the soil boring logs included in **Appendix C**.

Up to four (4) soil samples were collected for laboratory analysis from each soil boring from a combination of the following:

- 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.

Soil samples collected during the 2017-2018 characterization activities were collected and placed in laboratory prepared containers. The containers were labeled using the laboratory supplied labels and were stored on ice in a cooler. The samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico, under proper chain-of-custody procedures.

During the 2017-2018 characterization, four (4) geotechnical samples were collected utilizing a slide hammer fitted with geotechnical sample tubes. The sample tubes were sealed and secured with a custody seal. The samples were transported to PTS Laboratories, Inc., in Houston, Texas for analysis along with a completed chain-of-custody form.

3.3 Soil Laboratory Analytical Program (2017-2018 Characterization)

The soil samples collected during the characterization activities were analyzed for TPH GRO/DRO/MRO utilizing United States (US) Environmental Protection Agency (EPA) SW-846 Method 8015; BTEX utilizing EPA SW-846 Method 8021; and chloride utilizing EPA Method 300.0. The soil samples collected from the July 2018 soil borings were not analyzed for chloride.

Five (5) samples collected from soil borings/well borings SB-96, SB-102, and SVET-1 were also analyzed for total Iron utilizing EPA Method 6010, percent (%) moisture utilizing American Society for Testing and Material (ASTM) D2216, and pH utilizing Standard Method (SM) 4500-H+B.

Additionally, the four (4) geotechnical samples collected from soil borings SB-97 and SB-107 were analyzed for intrinsic permeability/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content utilizing American Petroleum Institute (API) Recommended Practice (RP) 40, Fraction Organic Carbon (FOC) utilizing the Walkley-Black method, and grain size analysis utilizing ASTM D422.

A summary of the analytes, sample type, and US EPA or other approved methods is presented in the following table:

Analytes	Sample Type	No. of Samples	Method
TPH GRO/DRO/MRO	Soil	78	EPA SW-846 8015
BTEX	Soil	78	EPA SW-846 8021
Chloride	Soil	68	EPA 300.0
Total Iron	Soil	5	EPA 6010
% Moisture	Soil	5	ASTM D2216
pH	Soil	5	SM4500-H+B
Permeability, Hydraulic Conductivity, Porosity, Volumetric Moisture, Dry Bulk Density	Soil	4	API RP 40
Fractional Organic Carbon	Soil	4	Walkley-Black
Particle Size	Soil	4	ASTM D422

Comprehensive soil analytical results for the 2017-2018 characterization are included in **Table 1** through **Table 4** (**Appendix E**). The executed chain-of-custody forms and laboratory data sheets for the Site characterization are provided in **Appendix F1**.

3.4 Soil Data Evaluation (2017-2018 Characterization)

Apex compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the soil boring/well boring soil samples (SB-91, SB-93, SB-95, SB-99, SB-100, SB-101, SB-109 through SB-111, SB-113 through SB-115, SB-120, and SB-121) to the New Mexico EMNRD OCD closure criteria. The soil boring locations in the following list were remediated by removal (excavation) and therefore associated COC exceedances are not discussed in the data evaluation.

Soil boring locations that were removed by excavation: SB-92, SB-93, SB-94, SB-96, SB-98, SB-102, SB-104, SB-105, SB-106, SB-107, SVET-1, SVET-2, SB-112, and SB-116 through SB-120.

Petroleum hydrocarbon-affected drill cuttings and hydro-excavation cuttings were either combined with affected excavation soils or transported directly to the Envirotech landfarm for remediation/disposal.

The available data corresponding to all soil borings (both current and historical) is presented in **Table 1** and **Table 2**. The data qualification flags associated with the 2017-2018 characterization analytical results are discussed in **Appendix G1**.

Figure 4 of **Appendix A** depicts the approximate location of the soil borings/well borings that were advanced in 2017 in relation to the extent of the 2017-2019 remediation excavation and relevant Site appurtenances.

3.4.1 Area 2 (2017-2018 Characterization)

To verify that the impact previously identified in Area 2 had been remediated, Apex advanced a soil boring adjacent to the former valve box location.

Benzene, Total BTEX, TPH, and Chlorides
The laboratory analytical results for the soil samples collected from soil boring SB-103 indicate benzene is not present in concentrations greater than the laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg.

The laboratory analytical results for the soil samples collected from soil boring SB-103 indicate total BTEX is not present in concentrations greater than the laboratory PQLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

The laboratory analytical results for the soil samples collected from soil boring SB-103 indicate combined TPH GRO/DRO/MRO concentrations of 10 mg/kg (7'- 8') and less than the PQL (11'–12'), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

The laboratory analytical results for the soil samples collected from soil borings SB-103 indicate chloride concentrations of 38 mg/kg (7'-8') and 58 mg/kg (11'-12'), which are less than the current New Mexico EMNRD OCD closure criteria of 600 mg/kg.

There are no data qualifier flags associated with the Area 2 soil analytical results.

The soil sample analytical results for Area 2 (Former Valve Box Area) are summarized in **Table 1** (**Appendix E**).

3.4.2 Area 3 (2017-2018 Characterization)

Benzene, Total BTEX, TPH, and Chlorides
The laboratory analytical results for the soil samples collected from the 2017-2018 Area 3 soil borings that remain in place indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg.

The laboratory analytical results for the soil samples collected from the 2017-2018 Area 3 soil borings that remain in place indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

The laboratory analytical results for the soil samples collected from the 2017-2018 Area 3 soil borings that remain in place indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

The laboratory analytical results for the soil samples collected from the 2017-2018 Area 3 soil borings that remain in place indicate chloride concentrations ranging from below laboratory PQLs/RLs to 220 mg/kg (SB-115 (8'-10')), which are less than the current New Mexico EMNRD OCD closure criteria of 600 mg/kg.

The soil sample analytical results for the 2017-2018 investigations are summarized on **Table 2** (**Appendix E**). Data qualifier flags are discussed in **Appendix G1**.

3.4.3 Area 3 Geochemical Analyses (2017-2018 Characterization)

Iron Content
The laboratory analytical results from the soil samples collected from soil borings/well borings SB-96 (6'-7' and 12'-13'), SB-102 (8'-9'), and SVET-1 (6'-7' and 12'-12.5') indicate total iron concentrations ranging from 7,900 mg/kg (SB-96 (6'-7')) to 22,000 mg/kg (SB-102 (8'-9')).

Moisture
The laboratory analytical results from the soil samples collected from soil borings/well borings SB-96 (6'-7' and 12'-13'), SB-102 (8'-9'), and SVET-1 (6'-7' and 12'-12.5') indicate moisture percentages ranging from 13% (SB-96 (6'-7')) to 26% (SB-102 (8'-9')).

pH
The laboratory analytical results from the soil samples collected from soil borings/well borings SB-96 (6'-7' and 12'-13'), SB-102 (8'-9'), and SVET-1 (6'-7' and 12'-12.5') indicate pH concentrations ranging from 8.02 (SVET-1 (6'-7')) to 9.25 (SB-96 (12'-13')).

The geochemical analytical results for Area 3 are summarized on **Table 3** (**Appendix E**). Data qualifier flags are discussed in **Appendix G1**.

3.4.4 Area 3 Geotechnical Soil Samples (2017-2018 Characterization)

To assist with the remedial option evaluation, four (4) geotechnical core soil samples were collected for laboratory analysis from soil borings SB-97 and SB-107 utilizing a slide-hammer core sample kit. Core samples were collected from depth ranges of seven (7) to eight (8) feet (SB-107) and 11 to 12 feet (SB-97).

Based on analytical results, the particle size distribution consists of fine sand, silt, and clay with an average particle size consisting of silt. The estimated hydraulic conductivity for silt and clay located at the Site averages 5.20 x 10^{-7} centimeter per second (cm/sec). These results confirm lithologies identified in the field and presented on the **2017 Soil Boring/Monitoring Well Logs** (**Appendix C**). Shallower geotechnical samples could not be obtained due to utility clearance requirements. The low permeability of the two (2) soil boring samples is characterized by lower percentages of sand, and higher percentages of silt/clay in the sampled interval. Complete geotechnical laboratory reports are provided in (**Appendix F1**) and are summarized in **Table 4** (**Appendix E**).

3.5 Groundwater Sampling Program (2017-2018 Characterization)

On July 13, 2017, Apex collected groundwater samples for laboratory analysis from monitoring wells MW-7 and MW-37 to obtain additional data to assist in remedial design.

Prior to sample collection, Apex gauged the depth to fluids in each of the designated monitoring wells using an interface probe capable of detecting NAPL. NAPL was not detected at the designated monitoring well locations.

The monitoring wells were purged until effectively dry, utilizing a disposable bailer. Subsequent to the completion of the purging process and the recovery of groundwater to static or near static levels,

groundwater samples were collected from each monitoring well utilizing a disposable bailer. Due to very slow groundwater recharge, the short water column, and the large volume of required sample, the analytical sample suite for monitoring well MW-37 was divided into two (2) parts and collected over the course of two (2) days.

The groundwater samples were collected in laboratory supplied containers and relinquished to the courier for HEAL of Albuquerque, New Mexico under proper chain-of-custody procedures.

3.6 Groundwater Laboratory Analytical Program (2017-2018 Characterization)

The groundwater samples were analyzed for biochemical oxygen demand (BOD) utilizing SM 5210B; chemical oxygen demand (COD) utilizing US EPA Method 410.4; nitrate and nitrites; and sulfate and chlorides utilizing US EPA Method 300.0. Groundwater sample containers for nitrite/nitrate and sulfate/chloride analysis were pre-preserved with sulfuric acid (H_2SO_4).

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

Analytes	Sample Type	No. of Samples	EPA Method
BOD	Groundwater	2	SM 5210B
COD	Groundwater	2	EPA Method 410.4
Nitrate	Groundwater	2	EPA Method 300.0
Nitrites	Groundwater	2	EPA Method 300.0
Sulfates	Groundwater	2	EPA Method 300.0
Chloride	Groundwater	2	EPA Method 300.0

The groundwater analytical results are summarized in **Table 5** (**Appendix E**). The executed chain-of-custody form and laboratory data sheets are provided in **Appendix F1**.

3.7 Groundwater Data Evaluation (2017-2018 Characterization)

Apex compared the chloride and sulfate laboratory analytical results associated with the characterization groundwater samples collected from monitoring wells MW-7 and MW-37 during July 2017 to the New Mexico WQCC Human Health Standards (HHSs), and WQCC Domestic Water Supply Standards (DWSSs), where applicable.[1] The remaining analyte (BOD, COD, and nitrates/nitrites) concentrations are provided in **Table 5** (**Appendix E**).

Chloride

The groundwater samples collected from monitoring wells MW-7 and MW-37 exhibited chloride concentrations of 200 mg/L and 53 mg/L, respectively, which are below the WQCC DWSS of 250 mg/L. [1]

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

Sulfates
The groundwater samples collected from monitoring wells MW-7 and MW-37 exhibited sulfate concentrations of 10,000 mg/L and 3,600 mg/L, respectively, which exceed the WQCC DWSS of 600 mg/L.[1]

The complete results of the 2017-2018 characterization groundwater sample analyses are summarized in **Table 5** of **Appendix E**. No data qualifier flags were associated with these analytical results.

4.0 SOIL REMEDIATION ACTIVITIES (AREA 3) (2017-2019)

On May 18, 2017, the New Mexico EMNRD OCD conditionally approved the *Soil Remediation Plan* (Apex, May 11, 2017) that was submitted by Enterprise. The New Mexico EMNRD OCD indicated that Enterprise must begin soil remediation no later than August 18, 2017. On August 7, 2017, activities were initiated in Area 3 to clear utilities by hydro-excavating a trench around the perceived excavation area. Subsequent to hydro-excavation activities, on August 18, 2017, the first phase of remediation excavation activities was initiated adjacent to the active pipelines in Area 3. **Figure 4** (**Appendix A**) depicts the approximate dimensions of the 2017-2019 excavation.

Phase 1 excavation activities were performed intermittently between August and October 2017. The residual petroleum hydrocarbon impacted soils adjacent to the two (2) gathering pipelines in Area 3 were removed. Due to the instability of the sidewalls and pipeline safety concerns, the excavations were partially backfilled with clean fill and laboratory-confirmed soils from stockpiles to support the active pipelines. Subsequent to partial backfilling of the excavations, trench holes were then excavated adjacent to the excavations to evaluate the level of remaining petroleum hydrocarbon impact to soils. Once laboratory analytical results confirmed that soils exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria, the excavation was extended in all directions as part of Phase 2.

On October 4, 2017, Enterprise requested approval from the New Mexico OCD to apply one of three possible remediation treatments (ORC Advanced®, Activated Sodium Persulfate, or Calcium Peroxide) to the groundwater within the open excavation. The New Mexico EMNRD OCD did not reply to the request.

Phase 2 excavation activities were initiated during October 2017. The remediation activities were performed intermittently between October 2017 and May 2018. Remediation activities were temporarily halted between May 2018 and May 2019. During this time new lease and access agreements were negotiated with the county and the property owner to the north. Additional delineation activities were implemented in the northern portion of Area 3 (north of facility fence line) to further delineate the extent of soil petroleum hydrocarbon impact. Subsequent to the approval to construct a detour route on County Road 379, Enterprise initiated the construction of the detour route in late April 2019. Beginning May 2019, Enterprise resumed excavation activities. Soil remediation activities in Area 3 were completed during June 2019.

During the Phase 2 excavation activities, soils associated with soil boring locations SB-92, SB-93, SB-94, SB-96, SB-98, SB-102, SB-104 though SB-107, SVET-1, SVET-2, SB-112, and SB-116 through SB-120 were removed from the Site and transported to the Envirotech landfarm for disposal/remediation.

Former soil boring SB-98 was used as a control point when Enterprise was initially planning on excavating only heavily impacted soils and remediating the remaining impact in situ. An additional soil boring is planned at the edge of the former excavation west of former soil boring SB-98 to further evaluate soils in that area.

The resulting excavation measured approximately 560 feet long by 280 feet wide at the maximum extents. The maximum depth measured approximately 20 feet bgs.

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

The lithology encountered during the remediation activities consisted primarily of unconsolidated silt, fine sand, and clay.

Approximately 68,598 cubic yards of hydrocarbon-affected soils and 270 barrels of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. In addition, approximately 4,771 bbls of potentially hydrocarbon-affected groundwater were recovered from the excavation and transported to Basin Disposal near Bloomfield, New Mexico for final disposal. The executed C-138 solid waste acceptance forms are provided in **Appendix H**. The excavation was ultimately backfilled with imported fill and laboratory-confirmed stockpiled soils and then contoured to surrounding grade.

The map in **Figure 4** (**Appendix A**) identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipelines. Photographic documentation of the field activities is included in **Appendix I**.

4.1 Phase 1 and 2 Excavation Soil Sampling Program (2017-2019 Remediation)

Based on information provided by Enterprise, Apex field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Apex's 2017-2019 Soil Remediation soil sampling program included the collection of 144 composite soil samples (P1-1 through P1-4, P1-T1 through P1-T21, P2-T22 through P2-T116, and P2-117 through P2-140), comprised of five (5) aliquots each from the walls of the excavation. Due to the presence of groundwater, and based on verbal on-Site New Mexico EMNRD OCD guidance, excavation floor samples were not collected. Hand tools and an excavator, operated by West States, were utilized to obtain fresh aliquots from each area of the excavation. In addition, 10 composite soil samples (P1-SP1 through P1-SP3 and SP-4 through SP-10) were collected from stockpiled overburden soils to evaluate the potential to reuse the soil as backfill. Additionally, one composite soil sample (C3R) was collected from historical stockpiled soils to determine its potential to reuse the soil as backfill.

Groundwater was encountered during the excavation activities and the depth of the excavation typically varied between two (2) and four (4) feet below the depth of groundwater to remove any hydrocarbons potentially trapped within the silts and clays near the groundwater interface. Wall depths of the excavation ranged from eight (8) feet in the low-lying areas of the Site (such as the retention pond) to 20 feet in the more elevated areas of the Site. Sample locations were supplied to the New Mexico ENMRD OCD as the project progressed. Regulatory correspondence is included in **Appendix J**.

During early sampling events, Enterprise was still considering utilizing SVE remediation in the area. As a result, early sampling events were targeting a combined TPH concentration of 10,000 mg/kg, above which the New Mexico ENMRD OCD had indicated all soils were required to be physically removed and would not be allowed to be remediated in-place. During 2018, due to the presence of NAPL, extensive fine-grained soils, and the observed rapid decline of COC concentrations once the <10,000 mg/kg threshold had been identified, Enterprise elected to continue excavation to the closure standards.

Soil samples from the Phase 1 and Phase 2 remediation activities were collected and placed in laboratory-prepared containers. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples were relinquished to the courier for HEAL of Albuquerque, New Mexico, under proper chain-of-custody procedures.

August 2017

On August 23, 2017 and August 25, 2017, four (4) confirmation soil samples (P1-1 through P1-4) were collected from the end walls of the pipeline corridor excavations to evaluate soil conditions. The pipelines

were inspected by Enterprise and The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities.

On August 25, 2017, eight (8) soil samples (P1-T1 through P1-T8) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for composite soil samples P1-T1 and P1-T3 through P1-T8. Soils associated with the affected composite soil samples were excavated and removed from the Site.

September 2017

On September 1, 2017, four (4) composite soil samples (P1-T9 through P1-T12) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for these soil samples. The soils associated with the samples were excavated and removed from the Site.

On September 14, 2017, four (4) composite soil samples (P1-T13 through P1-T16) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for these soil samples. The soils associated with the samples were excavated and removed from the Site.

On September 19, 2017, two (2) composite soil samples (P1-T17 and P1-T18) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for these soil samples. The soils associated with the samples were excavated and removed from the Site.

October 2017

On October 26, 2017, 10 composite soil samples (P1-T19, P1-T20, P1-T21, and P2-T22 through P2-T28) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for soil samples P1-T19, P2-T22 through P2-T26, and P2-T29. The soils associated with these samples were excavated and removed from the Site.

November 2017

On November 20, 2017, eight (8) composite soil samples (P2-T30 through P2-T37) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. These soil samples were removed by excavation due to COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

December 2017

On December 12, 2017, eight (8) composite soil samples (P2-T38 through P2-T45) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for these soil samples. The soils associated with the samples were excavated and removed from the Site.

On December 13, 2017, seven (7) composite soil samples (P2-T46 through P2-T52) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for soil samples P2-T46 through P2-T50. The soils associated with these samples were excavated and removed from the Site.

February 2018

On February 2, 2018, eight (8) composite soil samples (P2-T53 through P2-T60) were collected from the excavation walls. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. Only one (1) of the samples (P2-T60) exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria and was removed by excavation.

On February 6, 2018, eight (8) composite soil samples (P2-T61 through P2-T68) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities. Soils associated with soil samples P2-T61 through P2-T64 exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria and were removed by excavation.

On February 15, 2018, five (5) composite soil samples (P2-T69 through P2-T73) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities.

March 2018

On March 2, 2018, eight (8) composite soil samples (P2-T74 through P2-T81) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities.

On March 20, 2018, 19 composite soil samples (P2-T82 through P2-T100) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities. Soils associated with soil samples P2-T82, P2-T83, P2-T87 through P2-T89, P2-T92 through P2-T94, P2-T99, and P2-T100 exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria and were removed by excavation.

April 2018

On April 6, 2018, nine (9) composite soil samples (P2-T101 through P2-T109) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities.

May 2018

On May 2, 2018, seven (7) composite soil samples (P2-T110 through P2-T116) were collected from the excavation walls. A New Mexico EMNRD OCD representative was present during sampling activities. Analytical results indicated New Mexico EMNRD OCD closure criteria exceedances for soil samples P2-T112 through P2-T115. The soils associated with the samples were removed from the Site. At this time, Enterprise ceased further excavation and elected to perform delineation to the north of the facility fence line and the County Road. On June 15, 2018, Enterprise provided the New Mexico EMNRD OCD with a delineation plan.

July 2018

On July 2, 2018, five (5) soil borings (SB-109 through SB-113) were advanced, utilizing a hand auger, north of CR-379 to further evaluate and delineate the extent of petroleum hydrocarbon impact. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities. The laboratory analytical results for soil boring SB-112 indicated BTEX and TPH concentrations above the applicable closure criteria. The soils associated with the five (5) soil borings were ultimately removed and transported off Site during 2019 excavation activities. Based on the soil analytical results from this event, Enterprise elected to perform additional delineation on the south side of the CR-379.

September 2018

On September 4, 2018, eight (8) soil borings (SB-114 through SB-121) were advanced, utilizing a Geoprobe drilling rig, north of the Largo facility fence and south of CR-379 to further delineate the extent of petroleum hydrocarbon impact. A New Mexico EMNRD OCD representative was present during the drilling activities. The laboratory analytical results for soil borings SB-116, SB-117, SB-118, and SB-119 indicated BTEX and TPH concentrations above the applicable closure criteria.

Following this investigative event, Enterprise met with the New Mexico EMNRD OCD to discuss remediation of the remaining soil impact. Enterprise and the New Mexico EMNRD OCD agreed to continue remediation to the north of the facility fence line and the County Road. Enterprise Land Department corresponded with the landowner and the County Road Department regarding access and Enterprises' plan to construct a detour route and resume excavation. Following approval to construct a detour route, Enterprise initiated road construction and resumed remediation activities on April 29, 2019.

May 2019

On May 28, 2019, 10 composite soil samples (P2-117 through P2-T126) were collected from the excavation. A New Mexico EMNRD OCD representative was present during sampling activities. Soils associated with soil samples P2-118 through P2-123 exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria and were removed by excavation.
On May 31, 2019, 11 composite soil samples (P2-127 through P2-137) were collected from the excavation. A New Mexico EMNRD OCD representative was present during sampling activities. Only one (1) of the samples (P2-137) exhibited COC concentrations above the applicable New Mexico EMNRD OCD closure criteria and was removed by excavation.

June 2019

On June 14, 2019, three (3) composite soil samples (P2-138 through P2-140) were collected from the excavation. The New Mexico EMNRD OCD was notified of the sampling event although no representative was present during sampling activities.

4.2 Soil Laboratory Analytical Program (2017-2019 Remediation)

The excavation confirmation soil samples and stockpiled soil samples were analyzed for BTEX utilizing US EPA SW-846 Method 8021/8260, and TPH GRO/DRO/MRO using US EPA SW-846 Method 8015. The excavation confirmation soil samples collected during May and June 2019 were also analyzed for chlorides utilizing US EPA Method 300.0.

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

Analytes	Sample Type	No. of Samples	Method
TPH GRO/DRO/MRO	Soil	155	EPA SW-846 8015
BTEX	Soil	155	EPA SW-846 8021
Chloride	Soil	27	EPA 300.0

The laboratory results for the excavation confirmation samples and stockpiled soil samples are summarized in **Table 6**, included in **Appendix E**. The executed chain-of-custody form and laboratory data sheets are provided in **Appendix F2**.

4.3 Soil Data Evaluation (2017-2019 Remediation)

4.3.1 Phase 1 and Phase 2 Confirmation Soil Samples

Apex compared the BTEX, TPH, and chloride laboratory analytical results or laboratory PQLs/RLs associated with the confirmation soil samples to the New Mexico EMNRD OCD closure criteria.

Soils associated with soil samples P1-4, P1-SP2, P1-T1, P1-T3 through P1-T19, P2-T22 through P2-T26, P2-T29 through P2-T50, P2-T60 through P2-T64, P2-T82, P2-T83, P2-T87 through P2-T89, P2-T92 through P2-T94, P2-T99, P2-T100, P2-T112 through P2-T115, P2-118 through P2-123, and P2-137 were removed from the Site for appropriate disposal/remediation and are not included in the following discussion.

Benzene, Total BTEX, TPH, and Chlorides

The laboratory analytical results for confirmation soil sample P1-T2 indicates a benzene concentration of 0.027 mg/kg, which does not exceed the New Mexico EMNRD OCD closure criteria of 10 mg/kg. The laboratory analytical results for the remaining confirmation soil samples collected from soils remaining in place indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg.

The laboratory analytical results for confirmation soil samples SP-9, P1-T2, and P2-T110 indicate total BTEX concentrations ranging from 0.095 mg/kg (P2-T110) to 1.2 mg/kg (SP-9), which do not exceed the New Mexico EMNRD OCD closure criteria of 50 mg/kg. The laboratory analytical results for the remaining confirmation soil samples collected from soils remaining in place indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

The laboratory analytical results for confirmation soil samples SP-4, SP-6, SP-9, P1-T2, P2-T28, P2-T110, and P2-139 indicate combined TPH GRO/DRO/MRO concentrations ranging from 9.1 mg/kg (P2-T110) to 91 mg/kg (P2-139), which do not exceed that New Mexico EMNRD OCD closure criteria of 100 mg/kg. The laboratory analytical results for the remaining confirmation soil samples collected from soils remaining in place indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

The laboratory analytical results for confirmation soil samples SP-8 through SP-10, P2-117, P2-124 through P2-136, P2-138 through P2-140, and indicate chloride concentrations ranging from below the laboratory PQLs/RLs to 590 mg/kg (P2-127), which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.[1]

The confirmation soil sample results are provided in **Table 6** of **Appendix E**.

4.4 Reclamation and Revegetation

Enterprise backfilled the final Area 3 excavation with clean imported fill and segregated, laboratory confirmed, stockpiled soils and then contoured to the surrounding grade. A majority of the excavation is within the facility fence or under the county road and was not reseeded. The county road was reconstructed to its original location.

[1] NMAC 19.15.29 was amended (8/14/18). The previous rule did not list a chloride concentration standard. Soil samples that were collected during 2019 were analyzed for chloride and the concentrations were compared to the newly listed chloride concentration.

5.0 SOIL AND GROUNDWATER REMEDIATION ACTIVITIES (AREA 1) (2018-2020)

After a small-scale pilot test during July 2017, A SVE and AS remedial design work plan for Area 1 soil and groundwater remediation was submitted to the New Mexico EMNRD OCD (*Soil Vapor Extraction and Air Sparging Work Plan*, Apex, September 15, 2017, updated November 14, 2017). The New Mexico EMNRD OCD approved the work plan. During March 2018 and April 2018, Enterprise initiated the installation of the SVE and AS system. Six (6) air sparge wells (AS-1 through AS-6) and seven (7) soil vapor extraction wells (SVE-1 through SVE-7) were advanced by Apex in Area 1 utilizing a HSA drilling rig. Prior to drilling activities, the HSA soil boring locations were hydro-excavated to approximately 10 feet bgs. The hydro-excavated portions of the soil borings were logged and field screened utilizing a hand auger from six (6) feet bgs to 10 feet bgs prior to the use of the HSA drilling rig.

Figure 5 of **Appendix A** is a map that depicts the soil boring/well locations in Area 1.

5.1 SVE/AS Well Completion

The 13 soil borings completed in Area 1 during 2018 were completed as SVE and AS wells. The SVE and AS wells were completed using the following methodology:

- Installation of 15 feet of four (4) inch diameter (SVE wells) and two (2) feet of two (2) inch diameter (AS wells), 0.010-inch (AS wells) and 0.020-inch (SVE wells) machine-slotted polyvinyl chloride (PVC) well screen with a threaded bottom cap;
- Installation of two (2) inch inside diameter (AS wells) and four (4) inch inside diameter (SVE wells), threaded flush joint PVC riser pipe to above the ground surface;
- Addition of pre-sieved, 10/20 grade, annular silica sand pack from the bottom of the soil boring to one (1) foot above the top of the well screen;
- Placement of two (2) or more feet of hydrated bentonite pellets above the sand;
- Addition of cement/bentonite slurry to the surface; and,
- Installation of road boxes with J-plugs and well-locks.

SVE and AS well construction details are presented on the soil boring logs included in **Appendix C**. The New Mexico OSE permits are provided in **Appendix D**.

5.2 SVE/AS Soil Boring Sampling Program

The soil samples that were collected during the SVE/AS HSA drilling activities were collected utilizing five-foot core barrel samplers or were collected directly from the hand auger during daylighting activities. Samples and drill cuttings were observed to document visual and olfactory evidence of petroleum hydrocarbons. A field headspace analysis was conducted on each available soil sample interval by placing the portion of the sample designated for field screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a PID capable of detecting VOCs. The PID was calibrated utilizing an isobutylene standard prior to use in the field.

PID readings ranged from zero (0) parts per million (ppm) to 2,845 ppm (SVE-2 @ 19'). The field screening results are presented on soil boring logs included in **Appendix C**.

Petroleum hydrocarbon-affected drill cuttings and hydro-excavation cuttings were transported to the Envirotech landfarm for remediation/disposal.

During the completion of each soil boring, a trained Apex professional documented the subsurface lithology, color, and moisture content to construct a continuous profile of the soil column. Soil samples from each boring location were visually inspected and classified in the field. The lithology observed during the

advancement of the soil borings generally consisted of silty sand, silty clay, clayey silt, clay, and sand. Detailed lithologic descriptions are presented on the soil boring logs included in **Appendix C**.

Up to two (2) soil samples were collected from a portion of the SVE/AS wells (SVE-1 through SVE-7, AS-1, AS-5, and AS-6) for laboratory analysis from a combination of the following intervals:

- 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.

Soil samples that were collected during the SVE/AS well installation activities were collected and placed in laboratory prepared containers. The containers were labeled using the laboratory supplied labels and were stored on ice in a cooler. The samples were relinquished to the courier for HEAL of Albuquerque, New Mexico, under proper chain-of-custody procedures.

5.3 SVE/AS Soil Boring Laboratory Analytical Program

The soil samples collected during the SVE/AS well drilling activities were analyzed for TPH GRO/DRO/MRO utilizing US EPA SW-846 Method 8015 and BTEX utilizing US EPA SW-846 Method 8021.

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

Analytes	Sample Type	No. of Samples	Method
TPH GRO/DRO/MRO	Soil	12	EPA SW-846 8015
BTEX	Soil	12	EPA SW-846 8021

5.4 SVE/AS Soil Boring Data Evaluation

Apex compared the BTEX and TPH laboratory analytical results or laboratory PQLs associated with the SVE/AS soil boring samples to the New Mexico EMNRD OCD closure criteria.

Figure 5 of **Appendix A** depicts the approximate locations of historical and recent soil borings.

Benzene, Total BTEX, and TPH

The laboratory analytical results for the soil samples collected from the SVE/AS soil borings indicate benzene concentrations ranging from less than the laboratory PQLs to 4.5 mg/kg (SVE-4), which are less than the New Mexico EMNRD OCD closure criteria of 10 mg/kg.

The laboratory analytical results for the soil samples collected from the SVE/AS soil borings indicate total BTEX concentrations ranging from less than the laboratory PQLs to 44 mg/kg (SVE-2 (19')), which are less than the New Mexico EMNRD OCD closure criteria of 50 mg/kg.

The laboratory analytical results for the soil samples collected from soil borings SVE-1 (18' and 20'), SVE-2 (19' and 20'), SVE-3, and SVE-4 indicate combined TPH GRO/DRO/MRO concentrations ranging from 110 mg/kg (SVE-2 (20')) to 1,900 mg/kg (SVE-1 (20')), which exceed the New Mexico EMNRD OCD criteria of 100 mg/kg. The laboratory analytical results for the remaining soil samples collected from the SVE/AS

soil borings indicate combined TPH GRO/DRO/MRO concentrations ranging from less than the laboratory PQLs to 48 mg/kg (AS-5), which are less than the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

The soil sample analytical results for Area 1 are summarized in **Table 7** (**Appendix E**). The executed chain-of-custody form and laboratory data sheets are provided in **Appendix F3**. The data qualification flags associated with the SVE/AS soil boring sample analytical results are provided in **Appendix G3**.

5.5 Soil Vapor Extraction Emissions Monitoring

Upon completion of the SVE and AS wells in Area 1, the SVE and AS remediation system was built to the specifications outlined in the previously submitted *Soil Vapor Extraction and Air Sparging Work Plan* (Apex, September 15, 2017, updated November 14, 2017). The remediation system startup was implemented in December 2019 and baseline emission samples were also collected in December 2019. Emission samples collected during 2020 were collected in January, May, August, and December by Soli Technical, LLC (Soli). Baseline samples collected during 2019 exhibited a concentration 9,780,000 (µg/m³) and after one year of SVE/AS system operation the volatile organic concentrations decreased to 216,000 µg/m³. Details regarding the analytical results, remediation system installation, startup, and operations are provided in the *Annual Remediation System Operations Report* (Soli, December 23, 2020) that is included in **Appendix K**.

6.0 2019 AND 2020 GROUNDWATER MONITORING

Groundwater sampling events were conducted during June 2019, December 2019, April/May 2020, and October 2020 by Ensolum. The groundwater sampling program consisted of the collection of one (1) groundwater sample from each of the viable monitoring wells at the Site.

Monitoring well MW-47 was not sampled due to structural damage that occurred in 2016. Monitoring well MW-55 has exhibited a casing obstruction since May of 2017 and has not been gauged or sampled since then. Based on an inspection of the well during October 2018, the well screen appears to be compromised. Monitoring well MW-42 was not sampled due to a bailer lodged in the well casing. Monitoring wells MW-90 and MW-49 were effectively dry during the October 2020 sampling event.

The groundwater sampling program consisted of the following:

- Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well using an interface probe capable of detecting non-aqueous phase liquids (NAPL).
- Each viable two (2) inch monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Following the completion of the micro-purge process, one (1) groundwater sample was collected from each monitoring well.
- Low-flow or low-stress sampling refers to sampling methods that are intended to minimize the stress that is imparted to the formation pore water in the vicinity of the well screen. Water level drawdown provides the best indication of the stress that is imparted by a given flow rate for a given hydrological situation. Pumping rates of 0.1 to 0.5 liters per minute (L/min) are typically maintained during the low-flow/low-stress sampling activities, using dedicated or decontaminated sampling equipment.
- During low-flow sampling, the groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are taken every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three consecutive readings.

- The casing of monitoring well MW-75 is approximately 1.5-inches in diameter, which does not permit the use of the bladder pump for sampling. As a result, this monitoring well was purged until effectively dry utilizing a disposable bailer. Subsequent to the completion of the purging process and the recovery of groundwater to static levels, one (1) groundwater sample was collected from the monitoring well.

- Groundwater samples were collected in laboratory supplied containers (pre-preserved by the laboratory with mercuric chloride ($HgCl_2$)). The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The groundwater samples were relinquished to the courier for HEAL of Albuquerque, New Mexico under proper chain-of-custody procedures.

6.1 2019-2020 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the 2019 and 2020 groundwater sampling events were analyzed for BTEX utilizing US EPA SW-846 Methods 8021/8260.

Laboratory analytical results are summarized in **Table 8** in **Appendix E**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix F4**.

6.2 Groundwater Flow Direction

Each monitoring well has been surveyed to determine top-of-casing (TOC) elevations. Prior to sample collection, Ensolum gauged the depth to fluids in each monitoring well. The groundwater flow direction at the Site is generally toward the northwest, with an apparent average gradient of approximately 0.004 feet per foot (ft/ft) across the Site.

Groundwater measurements collected during the 2019 and 2020 gauging events (as well as historical gauging data) are presented in **Table 9** (**Appendix E**). Groundwater gradient maps prepared from the 2019 and 2020 gauging events data are included as **Figures 6A**, **6B**, **6C**, and **6D** (**Appendix A**).

6.3 2019-2020 Groundwater Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory PQLs /RLs associated with the groundwater samples collected from monitoring wells during the 2019 and 2020 sampling events to the New Mexico WQCC GQSs.[1] The results of the groundwater sample analyses are summarized in **Table 8** of **Appendix E**. Groundwater Quality Standards Exceedance Zone maps are provided as **Figures 7A**, **7B**, **7C**, and **7D** of **Appendix A**.

2019 Sampling Events

The 2019 analytical results for monitoring wells MW-7 (June 2019, 17 micrograms per liter (µg/L)) and MW-48 (December 2019, 14 µg/L) indicate benzene concentrations exceeding the WQCC GQS of 10 µg/L.[1] The 2019 laboratory analytical results for the remaining viable monitoring wells do not indicate benzene concentrations above the WQCC GQS of 10 µg/L.[1]

The 2019 analytical results for all the viable groundwater monitoring wells do not indicate toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.[1] There are no data qualifier flags associated with the 2019 groundwater analytical results.

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

2020 Sampling Events

The 2020 analytical result for monitoring well MW-48 indicates a benzene concentration of 24 µg/L (October 2020), which exceeds the WQCC GQS of 10 µg/L.[1] The 2020 laboratory analytical results for the remaining monitoring wells do not indicate benzene concentrations above the WQCC GQS of 10 µg/L.[1]

The 2020 analytical results for all the viable groundwater monitoring wells do not indicate toluene, ethylbenzene, or total xylenes concentrations above the applicable WQCC GQSs.[1]

There are no data qualifier flags associated with the April/May 2020 groundwater analytical results. The data qualifier associated with the October 2020 groundwater analytical results is provided in **Appendix G4**.

7.0 FINDINGS

Based on the evaluation of the analytical results from characterization, remediation, and groundwater monitoring activities, Ensolum presents the following findings:

Site Characterization (2017-2018)

- During the 2017-2018 site characterization, 33 soil borings were advanced in Areas 2 and 3 to further define the extent of petroleum hydrocarbon impact and obtain additional data for remedial option evaluations. Two (2) soil borings were completed as two (2) inch diameter SVET wells. Eighty-two (82) soil samples were collected and submitted for analysis. Soil samples collected from soil borings/well borings SB-92, SB-96, SB-98, SB-102, SB-104, SB-106, SB-107, SVET-1, SVET-2, SB-112, and SB-116 through SB-119 exhibited COC concentrations above the New Mexico EMNRD OCD closure criteria. Soil associated with each of the affected boring locations was later removed by excavation.

- Groundwater samples collected from monitoring wells MW-7 and MW-37 were submitted for BOD, COD, nitrate, nitrite, sulfate, and chloride analysis. The groundwater samples collected from monitoring wells MW-7 and MW-37 exhibited sulfate concentrations above the WQCC DWSSs.

- Based on results from four (4) geotechnical soil samples collected from soil borings SB-97 and SB-107, the estimated hydraulic conductivity for silt and clay located in Area 3 of the Site averages 5.20 $x10^{-7}$ cm/sec, which is equivalent to 1.47$x10^{-3}$ feet/day.

Soil Remediation (Area 3) (2017-2019)

- During August 2017, Enterprise initiated soil remediation activities in Area 3. Remediation activities were performed intermittently between 2017 and 2019. The total number of composite soil samples collected from the excavation for laboratory analysis was 144. In addition, 11 composite soil samples were collected from stockpiled soils to evaluate the potential to reuse the soil as backfill or top cover. Due to the presence of groundwater, and based on verbal on-Site New Mexico EMNRD OCD guidance, excavation floor samples were not collected.

- Former soil boring SB-98 was used as a control point when Enterprise was initially planning on excavating only heavily impacted soils and remediating the remaining impact in situ. An additional soil boring is planned at the edge of the former excavation west of former soil boring SB-98 to further evaluate soils in that area. Based on laboratory analytical results, the soils remaining in place in all

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

other portions of the former Area 3 excavation do not exhibit COC concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- Approximately 68,598 cubic yards of hydrocarbon-affected soils and 270 bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm located near Hilltop, New Mexico for disposal/remediation. This total includes drill and hydro-excavation cuttings from Area 1 and Area 2. In addition, approximately 4,771 bbls of potentially affected subsurface water recovered from the open excavation was transported to Basin Disposal located near Bloomfield, New Mexico for final disposal. The excavation was ultimately backfilled with imported fill and segregated laboratory confirmed stockpiled soil that was contoured to surrounding grade.

Soil and Groundwater Remediation (Area 1) (2018-2020)

- Thirteen (13) additional soil borings were advanced in Area 1 during 2018. Six (6) soil borings were completed as air sparge wells, and seven (7) soil borings were completed as SVE wells. Twelve (12) soil samples were collected from the soil borings and submitted for BTEX and TPH analysis. Soil samples collected from soil borings SVE-1 through SVE-4 exhibited TPH concentrations above the applicable New Mexico EMNRD OCD closure criteria. The SVE/AS system was activated in December 2019.

- Based on analytical results from the SVE emission samples that were collected between December 2019 and December 2020 volatile organic compound concentrations are decreasing as a result of the SVE/AS activities.

Groundwater Monitoring (2019 and 2020)

- Groundwater analytical data collected from the Site indicates that the petroleum hydrocarbon impact to the shallow groundwater-bearing unit is delineated within the existing monitoring well network.

- The groundwater flow direction at the Site is generally towards the northwest, with an apparent average gradient of 0.004 feet ft/ft across the Site.

- Benzene was reported at concentrations exceeding the New Mexico WQCC GQS of 10 µg/L in groundwater samples collected from monitoring wells MW-7 and MW-48 during the June 2019 and December 2019 sampling events and in the groundwater sample collected from monitoring well MW-48 during the October 2020 sampling event.[1] The groundwater samples collected from the remaining monitoring wells during 2019 and 2020 sampling events do not indicate COC concentrations above the applicable WQCC GQSs.[1]

- Benzene concentrations at monitoring well MW-48 continue to fluctuate, and it appears that benzene concentrations at monitoring well MW-7 are decreasing due to the SVE and AS activities in Area 1.

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the GQSs that were applicable at the time of initial remediation.

8.0 RECOMMENDATIONS

Based on the results of the characterization, remediation, and groundwater monitoring activities, Ensolum has the following recommendations:

- Report the interim remediation and groundwater monitoring results to the New Mexico EMNRD OCD.
- Continue the SVE and AS activities to further reduce COC concentrations in Area 1 soils and groundwater.
- Add monitoring wells to assess the primary COC dissolved-phase groundwater plume in Area 3, where numerous monitoring wells were removed during excavation activities.
- Advance and sample an additional soil boring west of former soil boring SB-98 to evaluate remaining soils in this area.
- Continue groundwater monitoring at the Site.
- After the Stage 1 Abatement Plan has been fully approved and implemented, prepare a Stage 2 Abatement Plan if required.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum'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. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum 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, as detailed in our proposal.

9.2 Limitations

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 Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during field activities. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

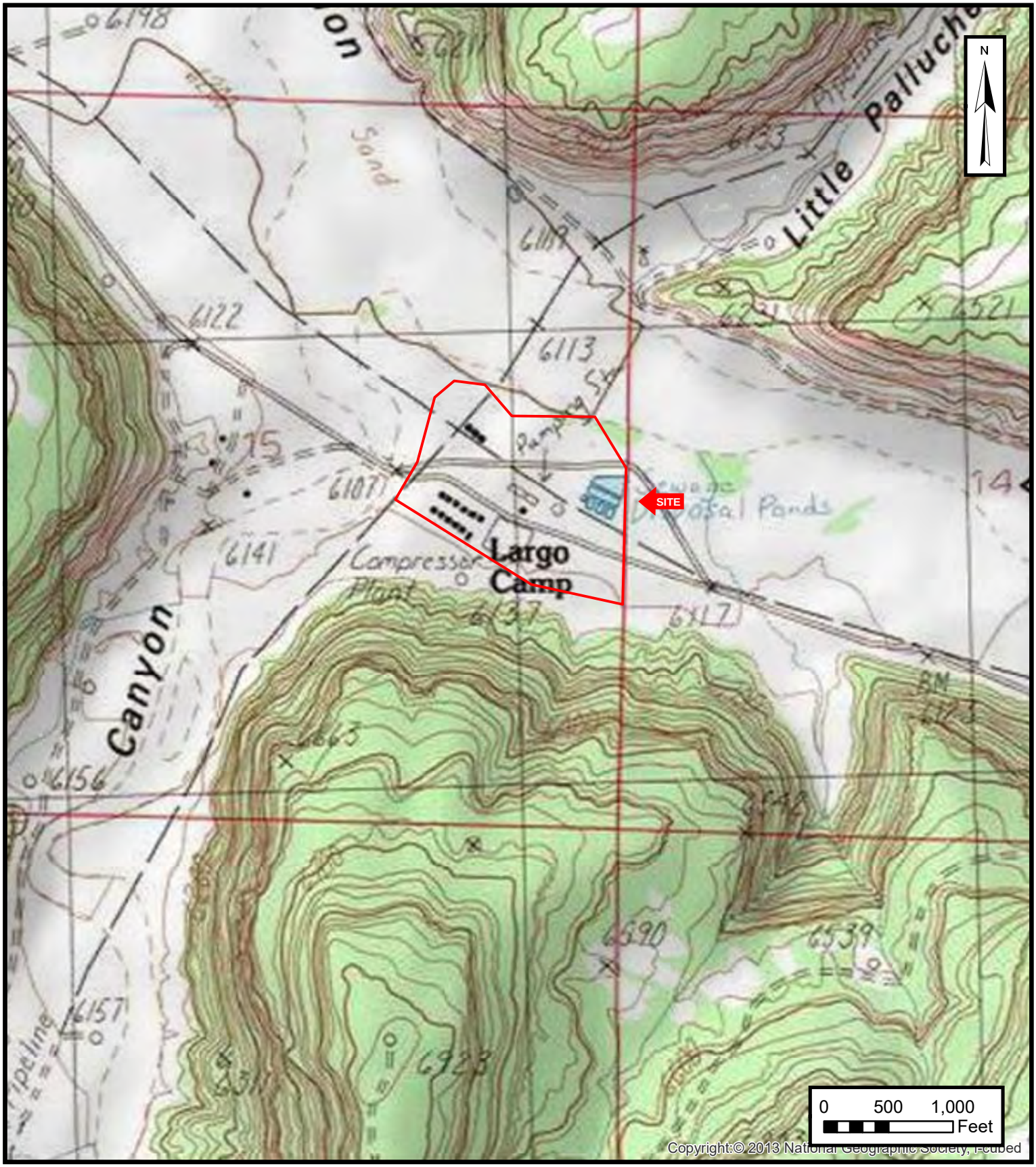
9.3 Reliance

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 express written authorization of Enterprise and Ensolum. 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 report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

ENSOLUM

APPENDIX A

Figures



ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION
NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

PROJECT NUMBER: 05A1226001

FIGURE
1

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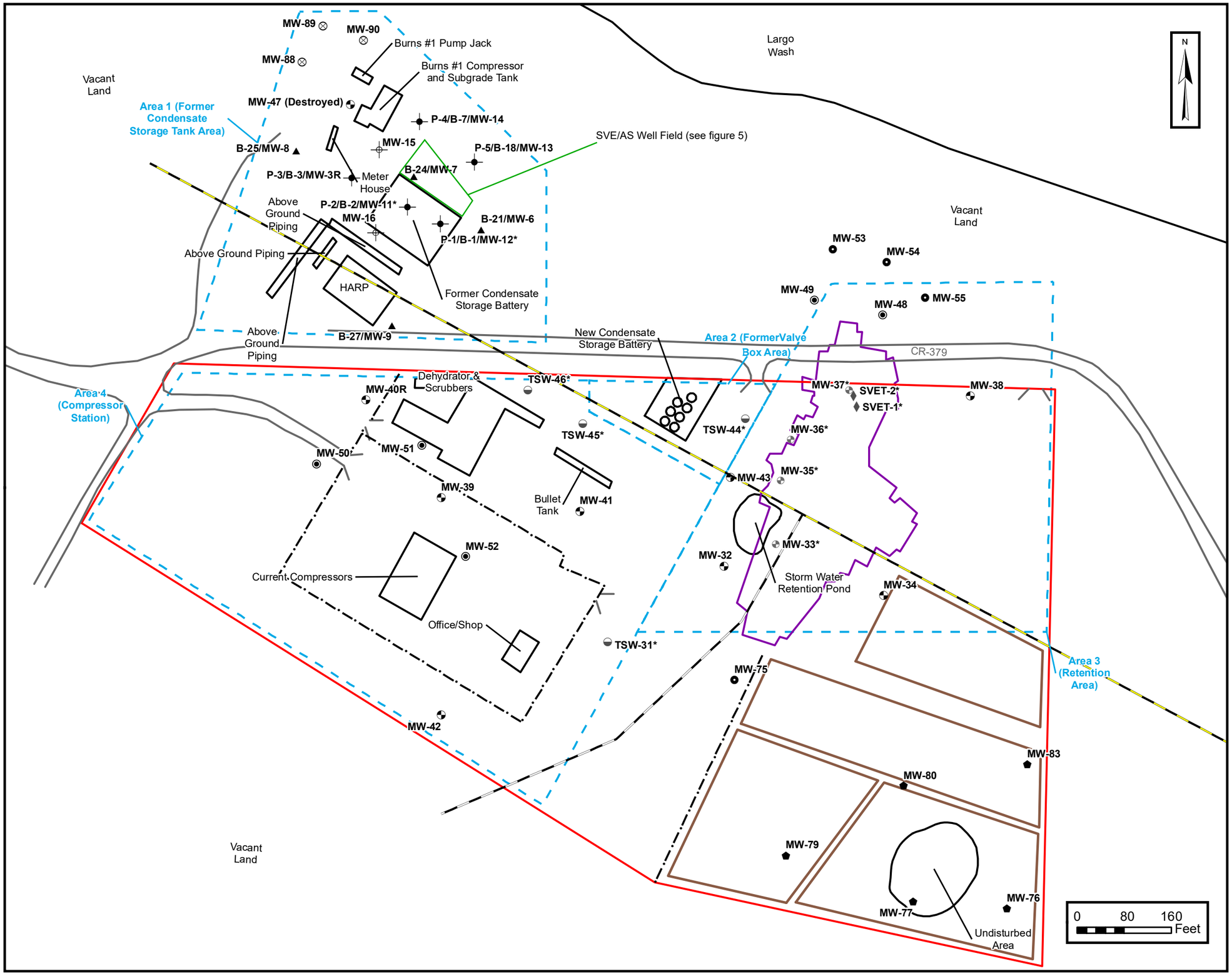
SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION
NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

PROJECT NUMBER: 05A1226001

FIGURE
2



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A Pipeline
- Well Tie

NOTE:
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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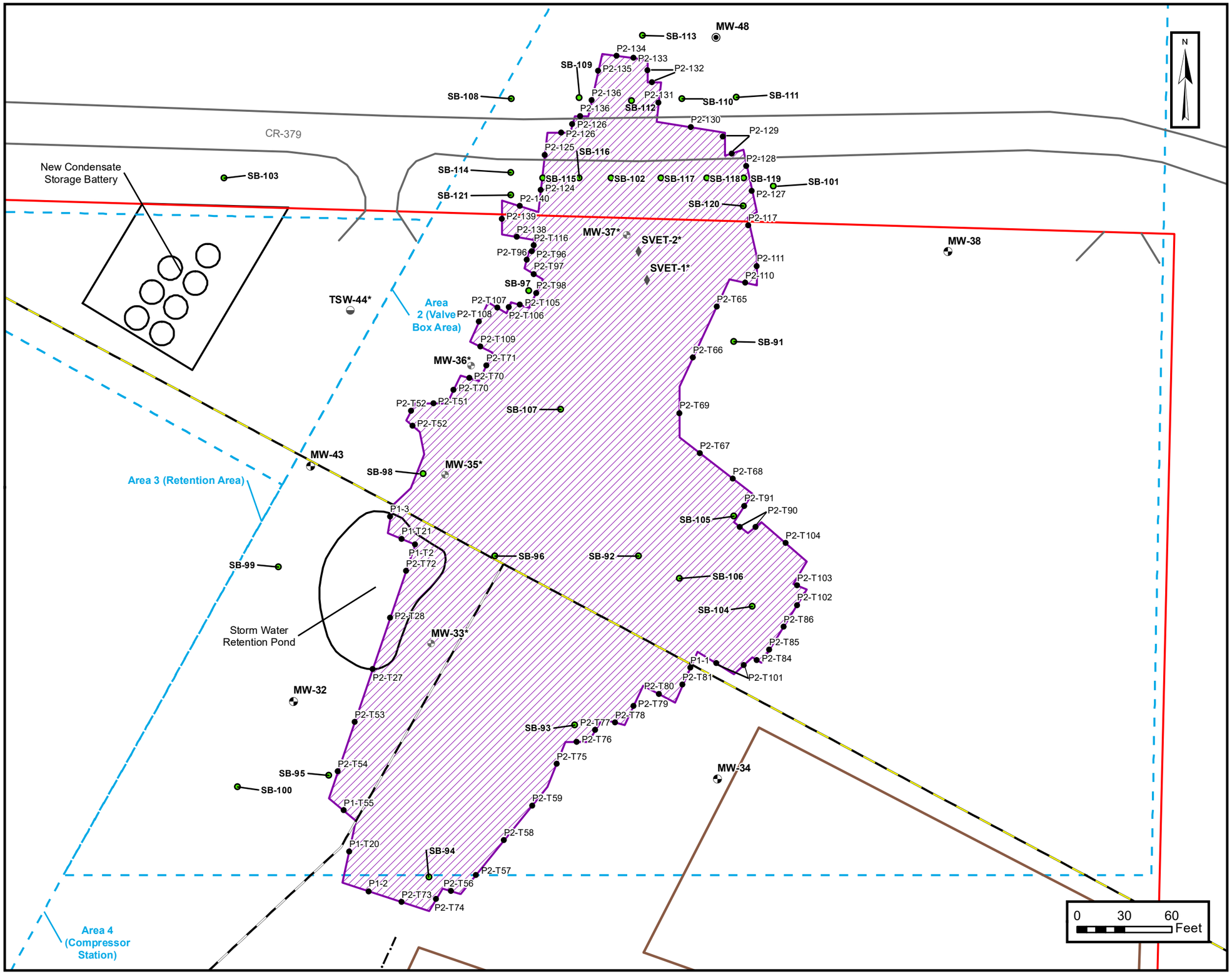
SITE MAP WITH ENVIRONMENTAL WELL LOCATIONS

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
3

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Plugged and Abandoned Monitoting Well
- Excavation Soil Sample Location
- Soil Boring Location Installed by Apex (2017/2018)
- Chain Link Fence
- Trunk A Pipeline
- Well Tie

NOTE:
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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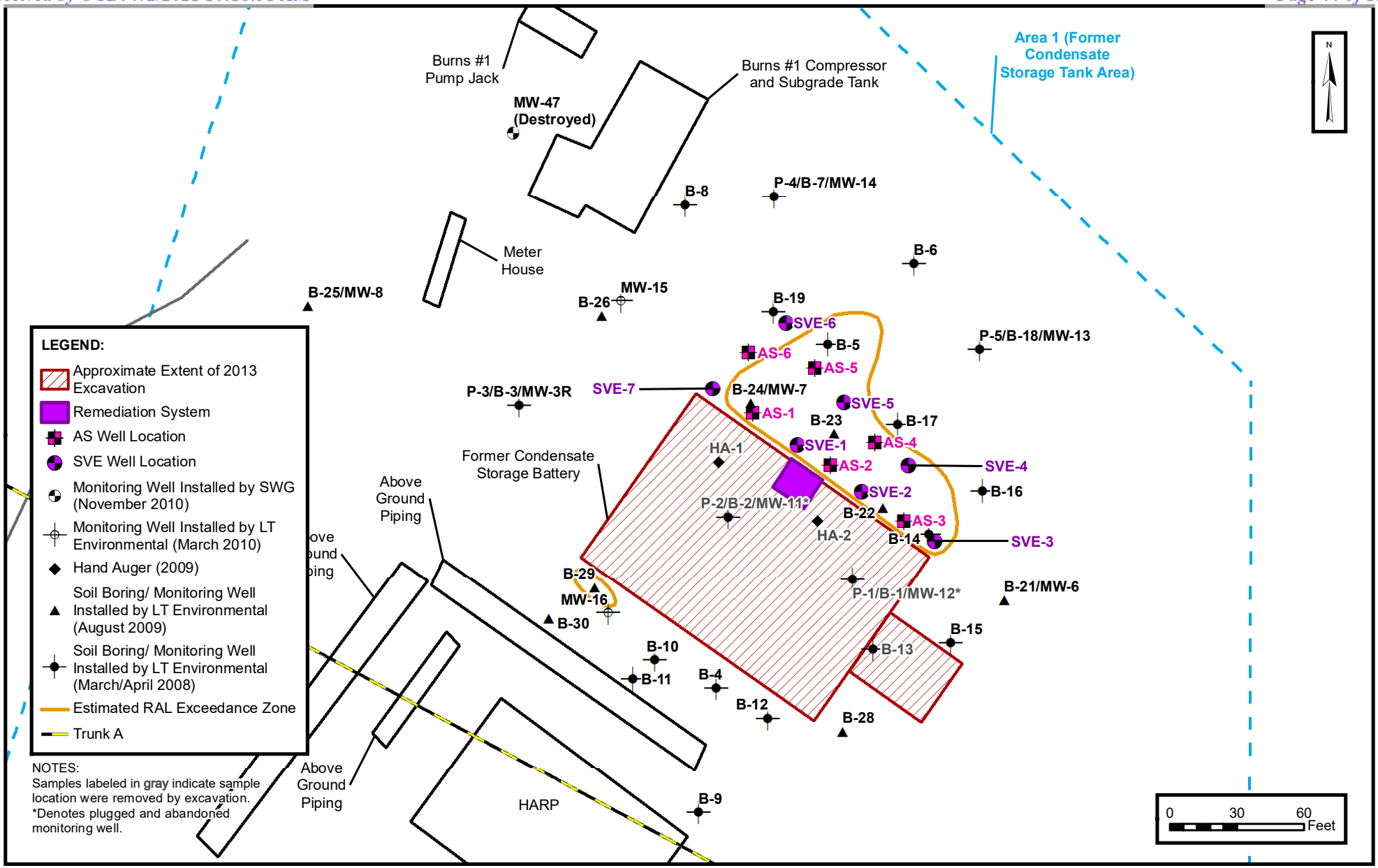
2017-2019 EXCAVATION MAP WITH SAMPLE LOCATIONS

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
4

Ensolum Project No : 05A1226001



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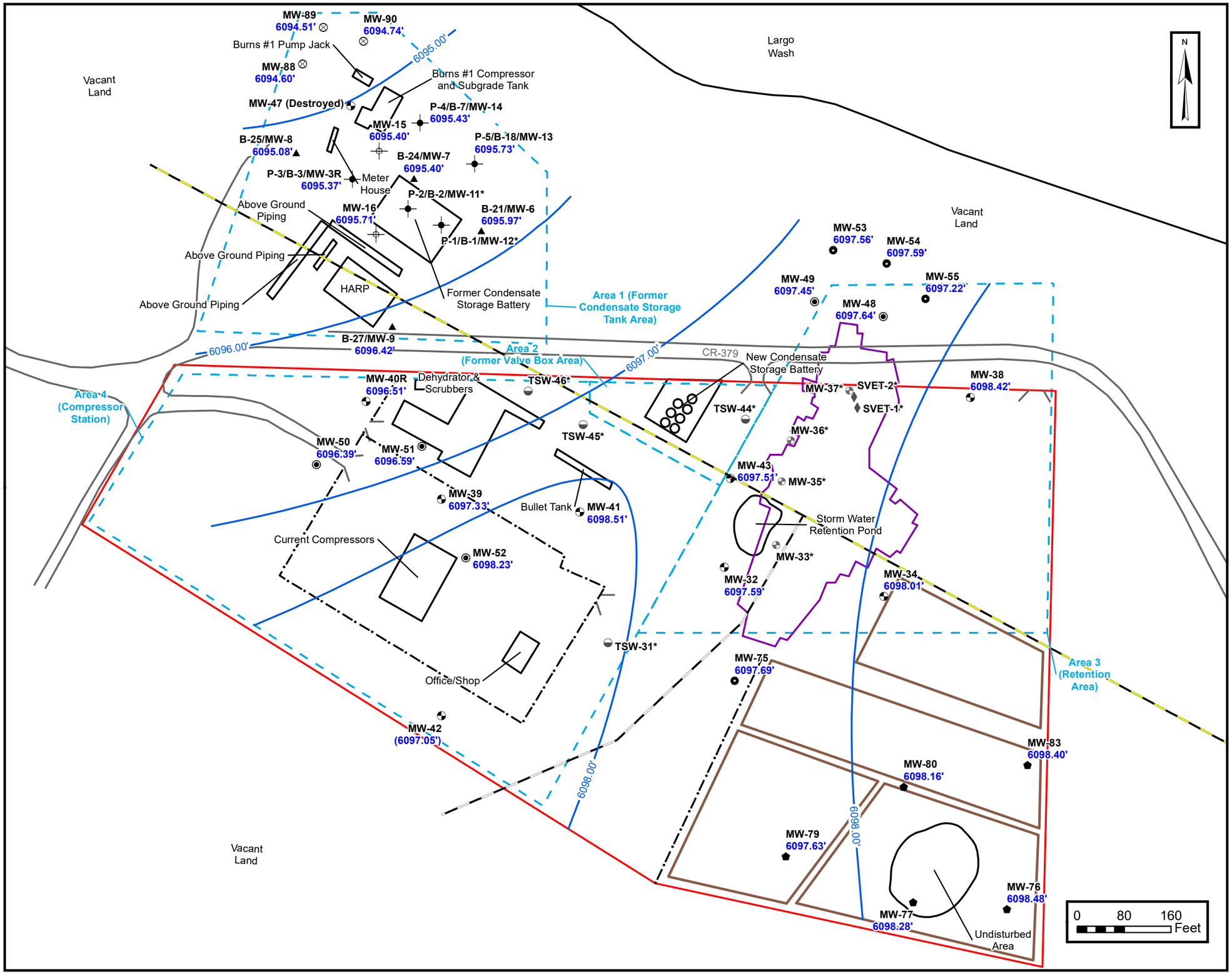
AREA 1 – SVE AND AS WELL LOCATIONS

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION
NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

PROJECT NUMBER: 05A1226001

FIGURE
5



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A
- Well Tie
- Groundwater Contour (Feet) (Contour Interval = 1.00')

NOTES:
All groundwater elevations are shown in **blue** and listed in Feet.
(6097.05') - Data Not Used For Contouring
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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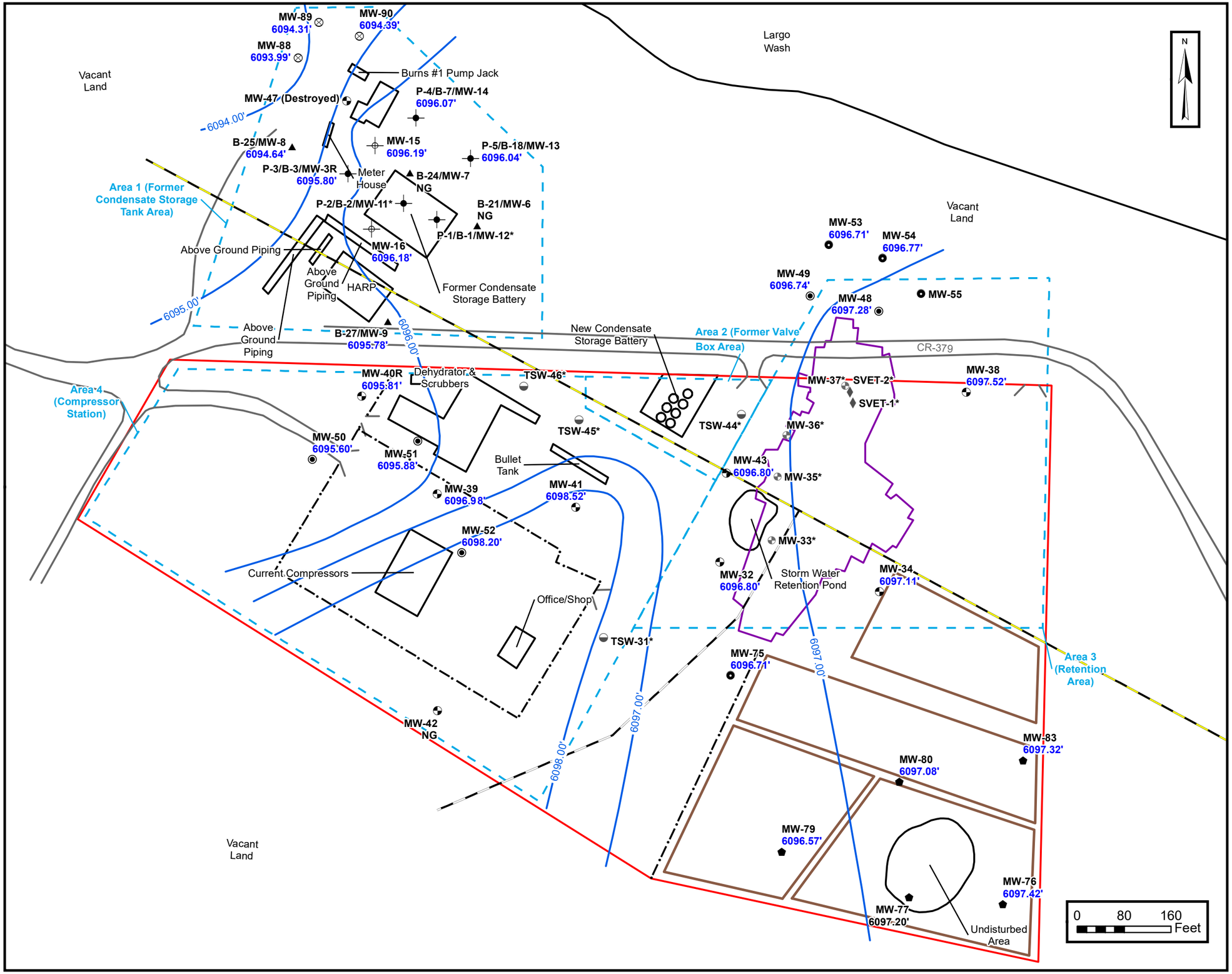
GROUNDWATER GRADIENT MAP (MAY 2019)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
6A

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
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- SVE Test Well Location 2017
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- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A Pipeline
- Well Tie
- Groundwater Contour (Feet) (Contour Interval = 1.00')

NOTES:
All groundwater elevations are shown in **blue** and listed in Feet.
NG - Not gauged
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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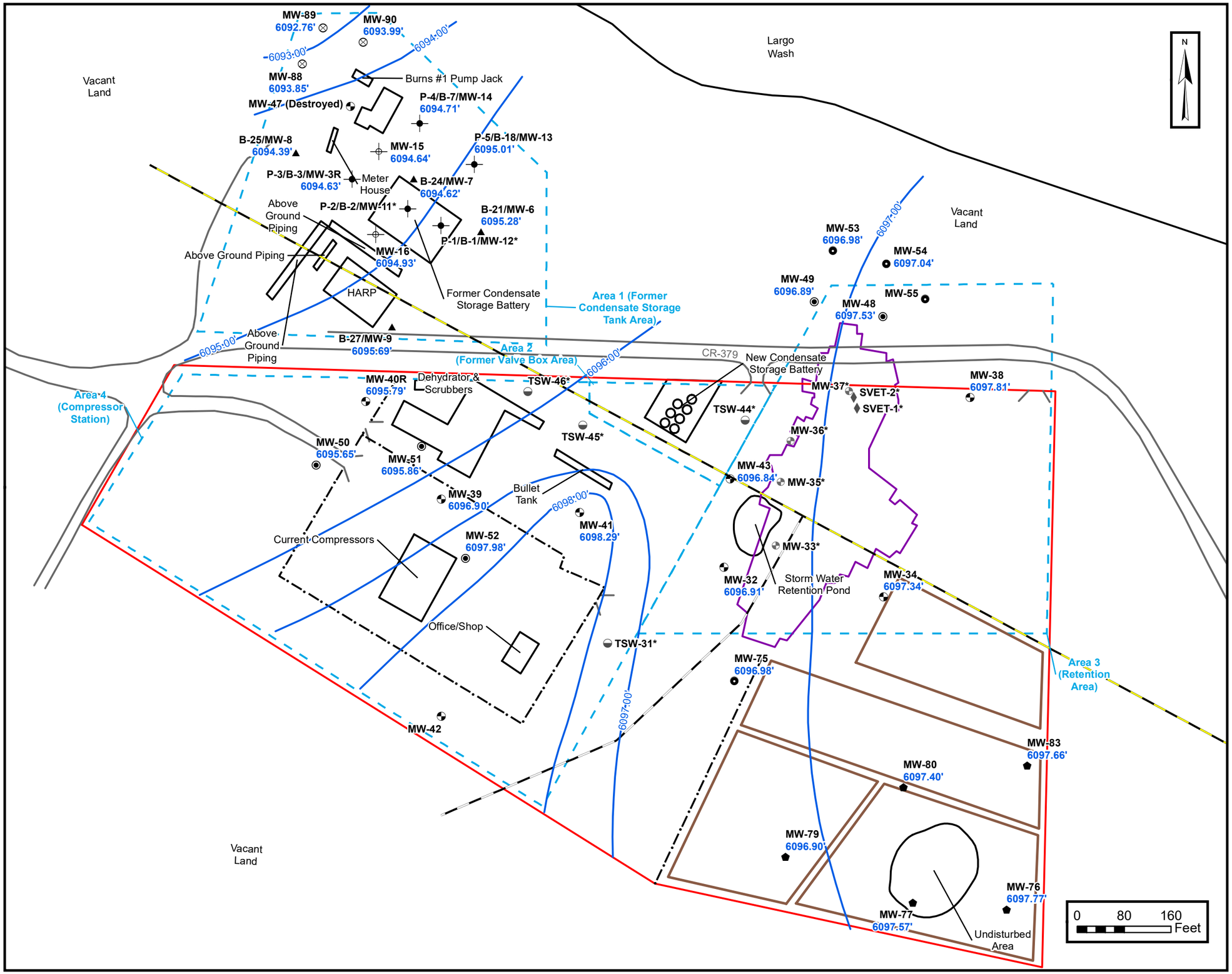
GROUNDWATER GRADIENT MAP (DECEMBER 2019)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
6B

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A
- Well Tie
- Groundwater Contour (Feet) (Contour Interval = 1.00')

NOTES:
All groundwater elevations are shown in **blue** and listed in Feet.
NG - Not gauged
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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Environmental & Hydrogeologic Consultants

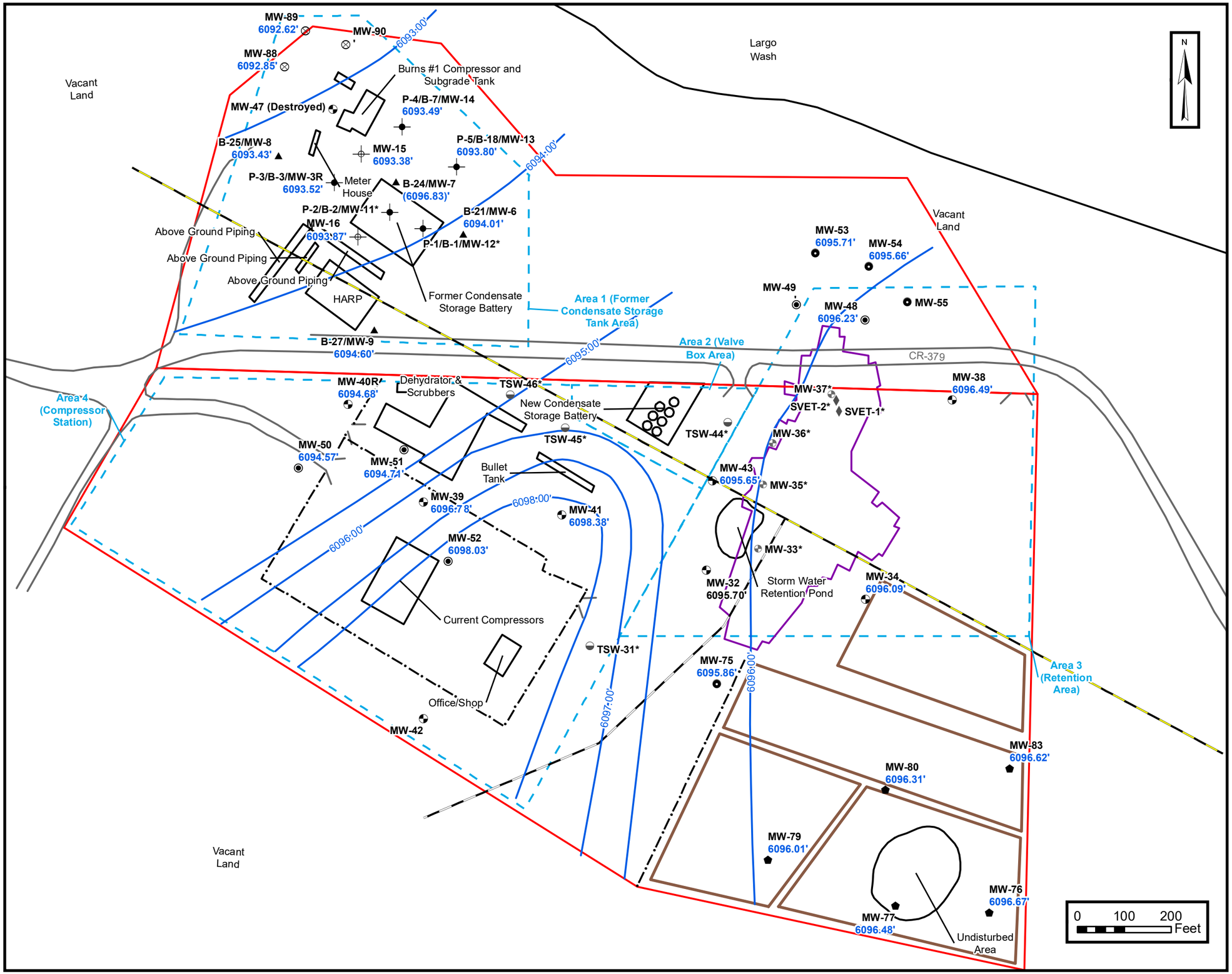
GROUNDWATER GRADIENT MAP (APRIL 2020)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
6C

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A
- Well Tie
- Groundwater Contour (Feet) (Contour Interval = 1.00')

NOTES:
All groundwater elevations are shown in **blue** and listed in Feet.
NG - Not gauged
(6096.83') - Data Not Used For Contouring
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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Environmental & Hydrogeologic Consultants

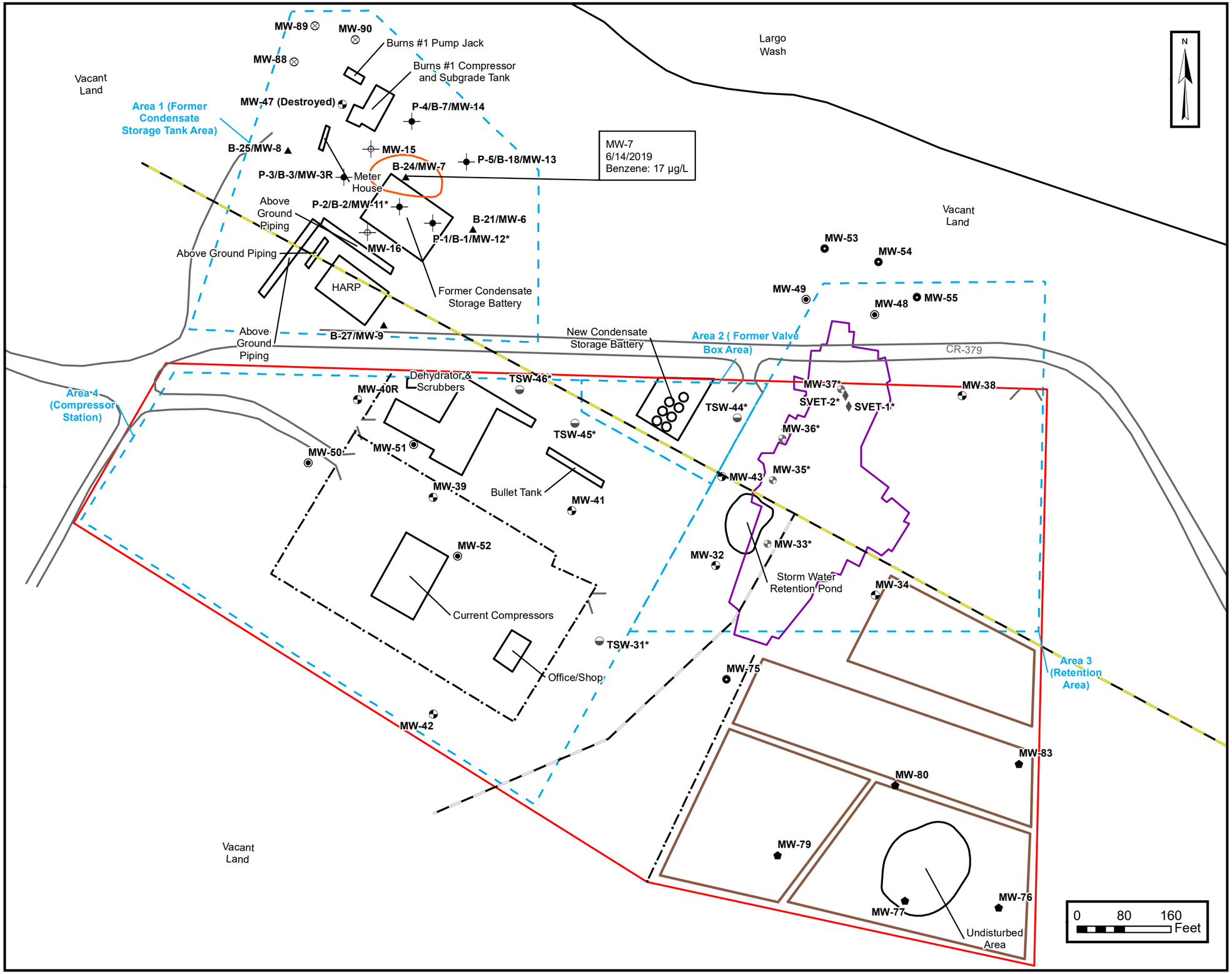
GROUNDWATER GRADIENT MAP (OCTOBER 2020)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
6D

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A Pipeline
- Well Tie
- GQS Exceedance Zone

NOTES:
µg/L - micrograms per liter
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.
NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule. Therefore, this figure reflects the previous GQSs that were applicable at the time of initial remediation.

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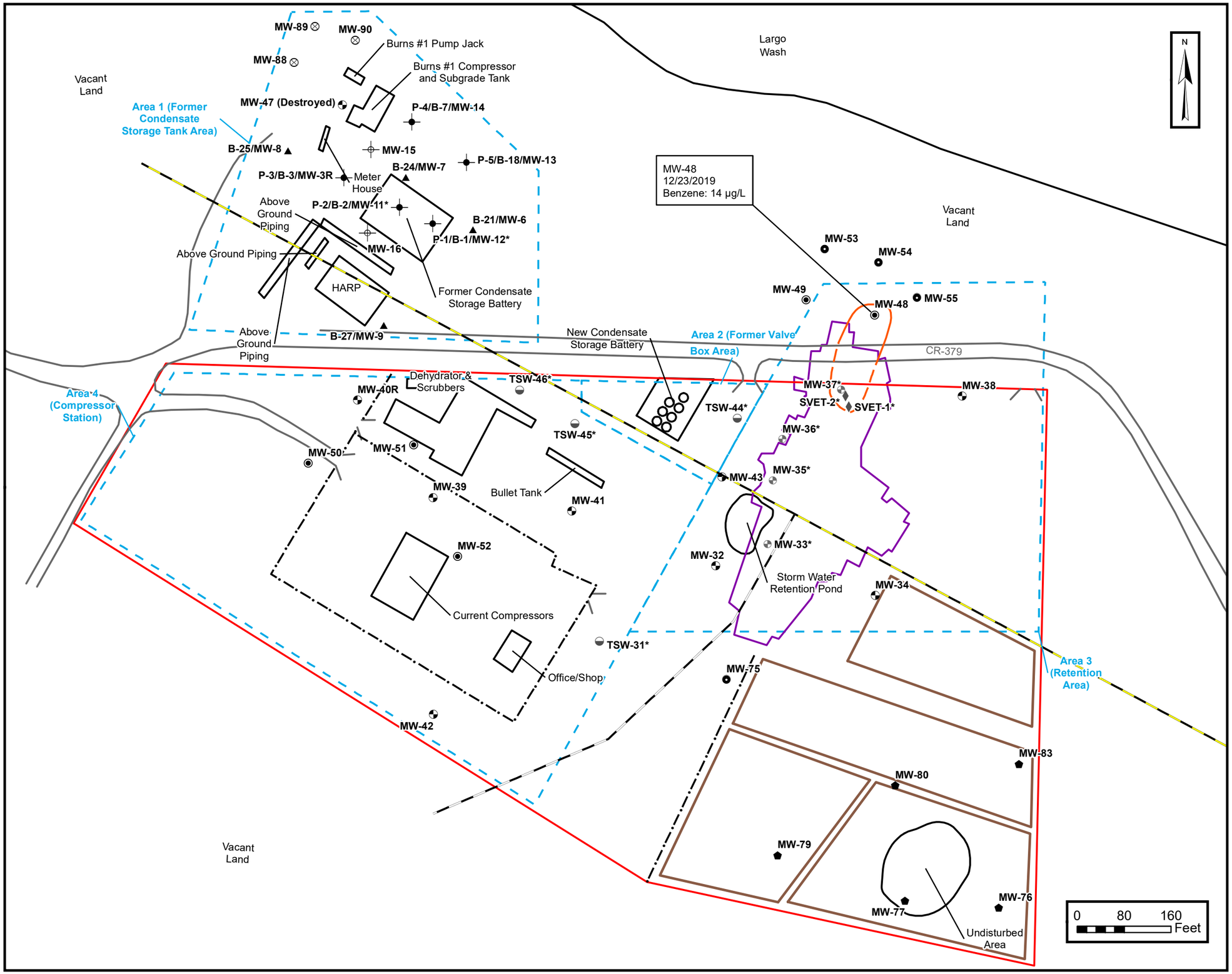
GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP
(JUNE 2019)
ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
7A

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
- Monitoring Well Installed by SWG (April 2012)
- Monitoring Well Installed by SWG (November 2010)
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- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A
- Well Tie
- GQS Exceedance Zone
- Inferred GQS Exceedance Zone

NOTES:
µg/L - micrograms per liter
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.
NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule. Therefore, this figure reflects the previous GQSs that were applicable at the time of initial remediation.

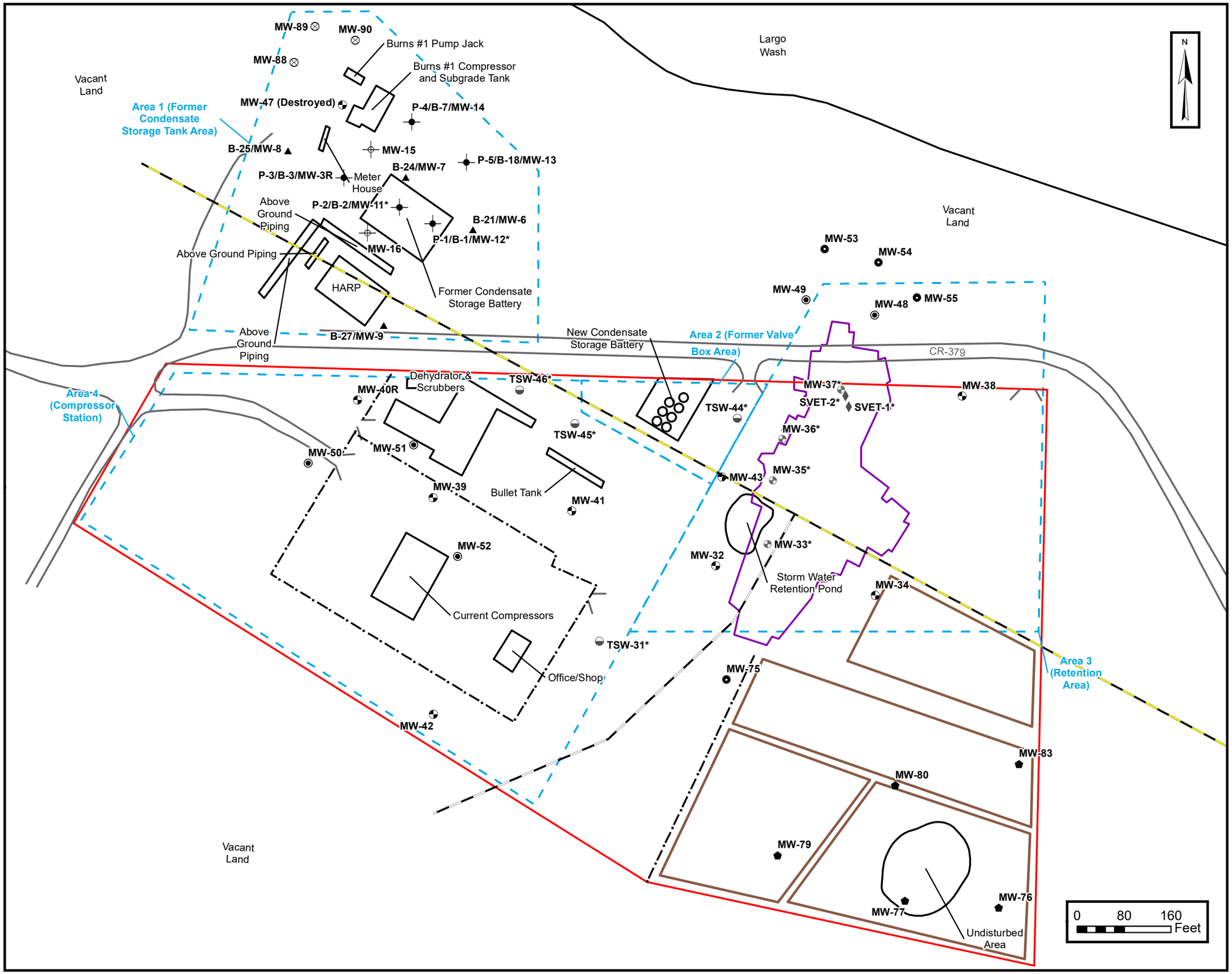
ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (DECEMBER 2019)
ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
7B

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
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- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A Pipeline
- Well Tie

NOTES:
No BTEX exceedances were observed during this sampling event.
µg/L - micrograms per liter
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

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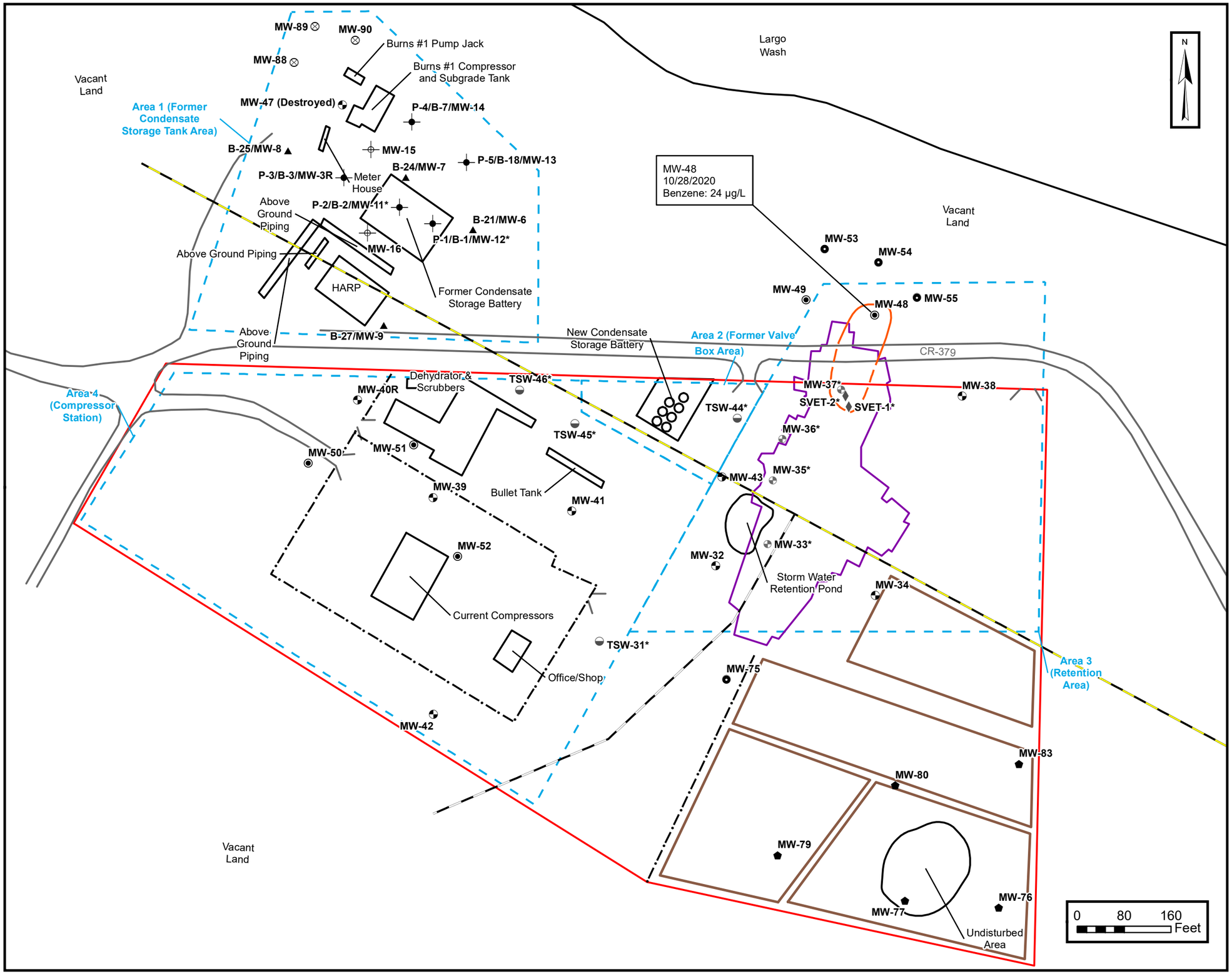
Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP
(APRIL/MAY 2020)
ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
7C

Ensolum Project No : 05A1226001



LEGEND:

- Site Outline
- Former Treatment Cell with Berm
- Extent of 2017-2019 Excavation
- Monitoring Well Installed by Apex (August 2014)
- Monitoring Well Installed by SWG (May 2013)
- Monitoring Well Installed by SWG (November 2012/ January 2013)
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- Monitoring Well Installed by SWG (November 2010)
- Monitoring Well Installed by LT Environmental (March 2010)
- SVE Test Well Location 2017
- Temporary Sampling Well Installed by SWG (November 2010)
- Soil Boring/ Monitoring Well Installed by LT Environmental (August 2009)
- Soil Boring/ Monitoring Well Installed by LT Environmental (March/April 2008)
- Plugged and Abandoned Monitoting Well
- Chain Link Fence
- Trunk A Pipeline
- Well Tie
- GQS Exceedance Zone
- Inferred GQS Exceedance Zone

NOTES:
µg/L - micrograms per liter
* - Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.
NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule. Therefore, this figure reflects the previous GQSs that were applicable at the time of initial remediation.

ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (OCTOBER 2020)
ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
7D

Ensolum Project No : 05A1226001

ENSOLUM

APPENDIX B

Siting Documentation

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00070	SJ	RA	3	2	4	15	26N	07W	270886	4040617*	335	22	313
SJ 00071	SJ	RA	2	1	4	15	26N	07W	270686	4040839*	365	26	339
SJ 04249 POD1	SJ	RA	2	2	4	15	26N	07W	271103	4040887	14	10	4
SJ 04249 POD10	SJ	RA		4	2	15	26N	07W	270892	4041001	21	21	0
SJ 04249 POD11	SJ	RA		4	2	15	26N	07W	270901	4040993	21	21	0
SJ 04249 POD12	SJ	RA		4	2	15	26N	07W	275378	4040885	21	21	0
SJ 04249 POD13	SJ	RA		4	2	15	26N	07W	270892	4041012	21	21	0
SJ 04249 POD14	SJ	RA		4	2	15	26N	07W	270884	4041022	21	21	0
SJ 04249 POD15	SJ	RA		4	2	15	26N	07W	270873	4041017	21	21	0
SJ 04249 POD2	SJ	RA			4	15	26N	07W	271101	4040890	14	10	4
SJ 04249 POD3	SJ	RA		4	2	15	26N	07W	270878	4041013	27	21	6
SJ 04249 POD4	SJ	RA		4	2	15	26N	07W	270887	4041005	27	21	6
SJ 04249 POD5	SJ	RA		4	2	15	26N	07W	270897	4040998	27	21	6
SJ 04249 POD6	SJ	RA		4	2	15	26N	07W	270894	4041007	27	21	6
SJ 04249 POD7	SJ	RA		4	2	15	26N	07W	270887	4041016	27	21	6
SJ 04249 POD8	SJ	RA		4	2	15	26N	07W	270879	4041020	27	21	6
SJ 04249 POD9	SJ	RA		4	2	15	26N	07W	270883	4041009	21	21	0

Average Depth to Water: **20 feet**

Minimum Depth: **10 feet**

Maximum Depth: **26 feet**

Record Count: 17

PLSS Search:

Section(s): 15, 9, 10, 11, 14, 16, 21, 22, 23 **Township:** 26N **Range:** 07W

***UTM location was derived from PLSS - see Help**

102 - 30-039-06545

15 - 30-039-06544

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator UNOCAL Location: Unit ___ Sec. 11 Twp 26 Rng 7

Name of Well/Wells or Pipeline Serviced RINCON UNIT NO. 102 & 15

Elevation 6510' Completion Date 7-31-90 Total Depth 300' Land Type* F

Casing, Sizes, Types & Depths NONE

If Casing is cemented, show amounts & types used NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used

NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 105 ft. deep, damp--5'thick, fresh

Depths gas encountered: NONE

Type & amount of coke breeze used: 300'deep with carbo 60=99.9% carbon, 1500 lbs of coke breeze.

Depths anodes placed: 240', 250', 260', 270', 280', 290'

Depths vent pipes placed: 0' to 300' deep

Vent pipe perforations: Laser cut slots from 100' to 300' deep

Remarks: 1st ground bed installed at this location.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

RECEIVED
JAN 30 1991
OIL CON. DIV.
DIST. 3

DATA SHEET NO. 1of1

COMPANY Unocal JOB No. 751-00084 DATE: 7-30-90

WELL: Rincon Unit Nº 102 PIPELINE:

LOCATION: SEC. 11 TWP. 26 RGE. 7 CO. Rio Arriba STATE NM

ELEV. 6510' G FT: ROTARY 305 FT: CABLE TOOL _____ FT: ~~CASING~~ COKE Carbo 60 ➡

GROUNDBED: DEPTH 300 FT. DIA 6" IN. GAS 1500 LBS. ANODES 6 Lida ST 1.6/50#

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	R	NO COKE I	WITH COKE I	ANODE NO.	DEPTH, TOP OF ANODES
0-15'	Brown Sand							
15'to	Frist water 105' Damp							
100	ALL Vent pipe to Tk.							
5	(Dark) Brown Sandstone W/Gravel stone							
10								
15								
20								
25								
30								
35								
40								
45			.5					
50			.4					
55			.6					
60			.6					
65			.6					
70			.7					
75			.8					
80			.8					
185			1.4					
190	Sandstone, Grey		1.4					
95			1.8					
200			1.9					
205			2.1					
210	Shale, Grey to Dark Grey		2.3					
15			2.5					
20			2.7					
25			2.8					
30			2.9					
35			3.2					
240			3.4				6	240
45			3.3					
250			3.5				5	250
55			3.3					
260			3.4				4	260
65			3.5					
270			3.7			10.8	3	270
75			3.8					
280			3.9				2	280
85			3.8					
290			4.0				1	290
95			3.8					
300	T.D		8.7					
5								

GROUNDBED RESISTANCE: (I) VOLTS 12.48 - AMPS 10.8 - 1.156 OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A LUKENS COMPANY

MO-TE DRILLING, INC.

DAY Monday

DRILLER Bob B. | LEFT TOWN | ARRIVED FIELD

HELPER Dennis | LEFT FIELD | ARRIVED TOWN

HELPER | 131 | TOTAL FOOTAGE TODAY

RIG NO. 206 DATE 9-30-92 CLIENT Uns-Cal

BEGIN WORK ON HOLE NO. Rincon #102 AT ______ FEET

BEGIN WORK ON HOLE NO. ______ AT ______ FEET

TIME FROM	TIME TO	ACTIVITY
0	15	Brown sand
15	190	Brown to dark brown sandstone with some hard gravel looking stone,
190	210	Sandstone, grey
210	300	Shale, grey to Dark grey,

BIT RECORD

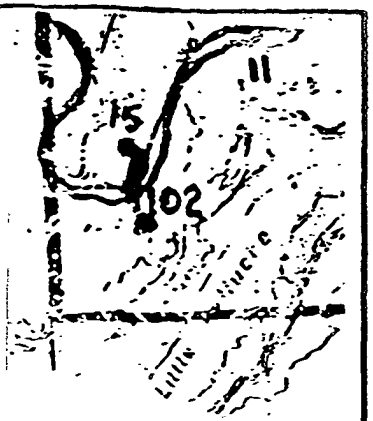
SIZE & MAKE	SERIAL NO.	FOOTAGE
1 5/8"	new special	

CIRCULATION MATERIAL

QUAN.	UNIT	MATERIAL

NO. OF LOADS OF WATER ______ SOURCE ______

san juan repr farm,nm Form 219-6



N

MR

30'

ROAD

DC TO 15'

RECT.

± DC TO GB

GB

DC TO 101

DEHY

10

PIT

100 BBL TANK

50'

GAS WELL

BURIED DC CABLE IN MIDDLE OF ROAD

● RECTIFIER, GROUND BED, & METER POLE LOCATION

REMARKS

RINCON UNIT # 102 MV
SW/SW SEC 11 T26NR7W NMPM
METER NO. 72206

DATE: 03/07/89
SCALE: NONE

UNOCAL

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

304M - 30-039-25488 93 - 30-039-06539

Operator: UNOCAL – Bloomfield, NM Location: Unit P Sec. 11 Twp. 26N Rng. 7W

Name of Well/Wells or Pipeline Serviced: RINCON UNIT 304M DK/MV, RINCON UNIT 93 PC

Elevation: 6504 GR Completion Date: 10/11/95 Total Depth: 290' Land Type* F

Casing, Sizes, Types & Depths: NONE

If Casing is cemented, show amounts & types used: NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used: NONE

Depths & thickness of water zones with description of water when possible: WET AT 220'

Fresh, Clear, Salty, Sulfur, Etc.: NONE

Depths gas encountered: NONE

Type & amount of coke breeze used: 1300 LBS., SWB PETROLEUM COKE

Depths anodes placed: 195' 201' 207' 213' 219' 225' 231' 237' 243' 250'

Depths vent pipes placed: 0' – 290', 1" PVC

Vent pipe perforations: 1/8" PERFORATIONS FROM 100' TO 290'

Remarks: FIRST GROUND BED INSTALLED ON THIS LOCATION.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analysis & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F–Federal; I–Indian; S–State; P–Fee
If Federal or Indian, add Lease Number.

Cathodic Protection Services

CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 304M	P/L NAME(s), NUMBER(s) Unocal – Rincon Unit 304 M					
WO #	TOTAL	VOLTS 12.1	AMPS 11.9	= OHMS 1.01	DATE 10/11/95	NAME

REMARKS (notes for construction, log)

TD of the hole was at 290' – 200' 1" vent (perforated) – 100' 1" solid

1300 lbs. Loresco SW coke breeze to cover above top anode

DEPTH	LOG ANODE	ANODE #
100	.1	
105	.1	
110	.1	
115	.1	
120	.1	
125	.2	
130	.3	
135	.1	
140	.1	
145	.2	
150	.2	
155	.2	
160	.1	
165	.3	
170	.1	
175	.2	
180	.3	
185	.4	
190	.5	
195	.7	
200	.8	
205	.9	
210	1.0	
215	.7	
220	.9	
225	.9	
230	1.0	
235	1.1	
240	1.1	
245	1.0	
250	.6	
255	.5	
260	.1	
265	.2	
270	.1	
275	.3	
280	.1	
285	.3	
290	TD	

DEPTH	LOG ANODE	ANODE #
295		
300		
305		
310		
315	—	
320		
325		
330		
335		
340		
345		
350		
355		
360		
365		
370		
375		
380		
385		
390		
395		
400		
405		
410		
415		
420		
425		
430		
435		
440		
445		
450		
455		
460		
465		
470		
475		
480		
485		

DEPTH	LOG ANODE	ANODE #
490		
495		
500		
505		
510		
515		
520		
525		
530		
535		
540		
545		
550		
555		
560		
565		
570		
575		
580		
585		
590		
595		
600		
605		
610		
615		
620		
625		
630		
635		
640		
645		
650		
655		
660		
665		
670		
675		
680		

DEPTH	LOG ANODE	ANODE #
685		
690		
695		
700		

ANODE #	DEPTH	NO COKE	FULL COKE
1	250	.6	1.9
2	243	.9	3.6
3	237	1.0	3.4
4	231	1.0	3.3
5	225	1.1	3.0
6	219	.8	2.5
7	213	.7	2.1
8	207	.8	1.9
9	201	.9	2.0
10	195	.7	1.9
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

permanent CPS FILE

COPY – Division P

COMPANY Unocal DAILY DRILLING REPORT Oct 10 19 95

WELL NAME:	WELL NUMBER:	SECTION:	TOWNSHIP:	RANGE:
304				

WATER AT: 220' FEET: HOLE MADE: 300

DESCRIPTION OF FORMATION

FROM	TO	FORMATION IS	COLOR
0	220	Sandstone	
220	300	Shale / sandstone	

REMARKS:

Brian E. Bunger Driller Tool Dresser

RECEIVED
OCT 17 1995
UNOCAL, BLOOMFIELD

ENSOLUM

APPENDIX C

2017 and 2018 Soil Boring/Well Boring Logs

BORING LOG SB-91

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/12/17, HSA - 6/6/17	**NORTH COORDINATE** 36.48584 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55502 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil Boring Logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-5' HYDROVAC** - no samples collected	1
				2		Silty Sand: moderate yellowish brown	2
				3			3
				4			4
				5		**5-12' HAND AUGER**	5
0				6		Silty Sand: moderate yellowish brown, fine, dry to slightly moist, no hydrocarbon odor	6
0				7		Silty Clay: dark yellowish brown, fine, dry to slightly moist, no hydrocarbon odor	7
0				8			8
0				9			9
0				10			10
0				11		Clay: dark yellowish brown, fine, slightly moist to moist, no hydrocarbon odor	11
0	SB-91 (11.5-12')			12		**12-20' HOLLOW STEM AUGER**	12
0				13		Silty Clay: dark yellowish brown with some traces of greenish gray, fine, moist, no hydrocarbon odor	13
0				14			14
0				15			15
0			▽	16		Sand: moderate yellowish brown, fine to medium grained sand, moist, no hydrocarbon odor	16
0				17		wet @ 16 ft bgs	17
0				18			18
0				19		saturated @ 19 ft bgs	19
0	SB-91(19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-92

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/12/17, HSA - 6/6/17	**NORTH COORDINATE** 36.48546 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55524 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4' HYDROVAC** - no samples collected	1
				2		Silty Clay: dark yellowish brown	2
				3			3
				4		**4-12' HAND AUGER**	4
2,176				5		Silty Clay: dark yellowish brown to dusk yellowish brown, fine, moist, hydrocarbon odor	5
1,956							
2,105				6		transitioned to grayish black	6
2,478						transitioned to medium gray	
2,095				7			7
2,676				8			8
3,026	SB-92 (8-9')		▽	9		Silty Sandy Clay: medium dark gray, fine, wet @ 9 ft bgs, hydrocarbon odor	9
2,820				10		black streaks	10
2,349				11			11
1,856				12		Silty Clay: black, moist **12-20' HOLLOW STEM AUGER**	12
	SB-92 (12-15')					Clay: black, fine, moist, hydrocarbon odor	
2,419				13		grading to black with olive gray to dark yellowish brown	13
				14			14
1,159				15		transitioned to dark yellowish brown, hydrocarbon staining	15
1,629				16			16
				17			17
2,019				18		Sand: moderate yellowish brown, wet, hydrocarbon staining, slight hydrocarbon odor to no hydrocarbon odor	18
330				19			19
130	SB-92 (19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-93

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/13/17, HSA - 6/6/17	**NORTH COORDINATE** 36.48516 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55537 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-5' HYDROVAC** - no samples collected	1
				2		Silty Sand: dark yellowish brown	2
				3			3
				4			4
				5		**5-12' HAND AUGER**	5
0						Silty Sand: dark yellowish brown, fine, dry, no hydrocarbon odor	
0.2				6		Clayey Silt: dark yellowish brown with dark yellowish orange specs, fine, slightly moist, no hydrocarbon odor	6
0.2				7		Silty Sand to Silt: moderate yellowish brown to dark yellowish brown to light olive gray, slightly moist, hydrocarbon odor	7
0				8			8
0.2	SB-93 (9-10')			9		some yellowish orange specs, fine	9
0.2				10			10
1.8				11		Silty Clay: dark yellowish brown to dark greenish gray and transitioned to grayish black @ 11 ft bgs, slight hydrocarbon odor, fine, moist	11
1.1				12		**12-20' HOLLOW STEM AUGER** Silty Clay: dark to moderate yellowish brown, fine, moist, no hydrocarbon odor	12
1.5	SB-93 (13-15')			13		Clay: some silt, grayish black to dark gray, fine, moist, hydrocarbon odor	13
1.5			▽	14			14
0.9				15		Silty Sand: medium yellowish brown, wet @ 15 ft bgs, no hydrocarbon odor	15
0.8				16			16
0				17			17
0	SB-93 (18-20')			18		Sand: moderate yellowish brown, wet, no hydrocarbon odor	18
0				19			19
				20		TD at 20 ft bgs	20
				21			21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-94

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/7/17, HSA - 6/7/17	**NORTH COORDINATE** 36.48489 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55569 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY/ C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY/ C. D'APONTI

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4' HYDROVAC** - no samples collected	1
				2		Silty Clay: light brown	2
				3			3
				4		**4-12' HAND AUGER**	4
1.1				5		Silty Clay: light brown, fine, dry, no hydrocarbon odor	5
1.1				6			6
1.0				7			7
1.0				8			8
1.1				9		slightly moist @ 8 ft bgs	9
2.0	SB-94 (9-10')			10			10
0.8				11			11
1.4				12		**12-20' HOLLOW STEM AUGER**	12
0				13		Silty Sand: some clay, moderate yellowish brown, fine, dry to moist, no hydrocarbon odor	13
0				14			14
0				15		transitioned to dark yellowish brown, moist @ 15 ft bgs	15
0				16			16
0				17			17
1.5				18		Clay: dark yellowish brown, fine, soft, moist, no hydrocarbon odor	18
2.8	SB-94 (18-19')			19			19
2.3	SB-94 (19-20')			20		Sand: dark yellowish brown, fine to medium, moist, no hydrocarbon odor	20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-95

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/7/17, HSA - 6/7/17	**NORTH COORDINATE** 36.48507 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55591 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY/ C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY/ C. D'APONTI

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4' HYDROVAC** - no samples collected	1
				2		Silty Clay: light brown	2
				3			3
				4		**4-12' HAND AUGER**	4
0				5		Silty Clay: light brown, fine, dry, no hydrocarbon odor	5
0.6				6			6
0.4				7		slightly moist @ 7 ft bgs	7
0.4				8			8
0.3				9			9
0.4				10			10
1.0	SB-95 (10-11')			11			11
0.7				12		**12-20' HOLLOW STEM AUGER**	12
0.1				13		Clayey Silt to Silty Clay: some clay, moderate yellowish brown, fine, moist, no hydrocarbon odor	13
0.2				14			14
0.1				15		Clay: dark yellowish brown, fine, moist, no hydrocarbon odor	15
0.3				16			16
0				17			17
2.3				18			18
2.6	SB-95 (18-19')		▽	19		soft	19
1.2	SB-95 (19-20')			20		Silty Sand to Sand: fine to medium fine grained sand, wet @ 19 ft bgs, no hydrocarbon odor	20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-96

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/5/17, HSA - 6/8/17	**NORTH COORDINATE** 36.48546 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55545 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-6' HYDROVAC** - no samples collected	1
				2		Silty Sand: gray	2
				3			3
				4			4
				5			5
				6		**6-12' HAND AUGER**	6
2,607	SB-96 (6-7')		▽	7		Silty Sand: gray, fine to medium grained sand, slightly moist, hydrocarbon odor	7
				8		wet @ 7 ft bgs	8
				9			9
				10			10
				11			11
				12		**12-20' HOLLOW STEM AUGER**	12
2,636	SB-96 (12-13')			13		Clay: black to medium dark gray, moist, hydrocarbon odor	13
448						transitioned to dark yellowish brown	
617				14		transitioned to slightly black staining	14
334				15		transitioned to moderate yellowish brown, soft, wet, slight hydrocarbon staining, slight hydrocarbon odor, grading to sand	15
298				16		Sand: moderate yellowish brown, medium to coarse grained sand, wet to saturated, slight hydrocarbon odor	16
				17			17
42				18			18
				19			19
56	SB-96 (19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-97

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/6/17, HSA - 6/5/17	**NORTH COORDINATE** 36.48593 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55547 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY/ C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY/ C. D'APONTI

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4' HYDROVAC** - no samples collected	1
				2		Silty Sand: light brown	2
				3			3
				4		**4-12' HAND AUGER**	4
0				5		Silty Sand: light brown, fine, moist, no hydrocarbon odor	5
0				6		Silty Clay: light brown, fine, moist, no hydrocarbon odor	6
0				7		transitioned to moderate brown	7
0				8			8
0				9			9
0				10			10
0				11			11
0	SB-97 (11-12')		▽	12		Silty Sandy Clay: moderate brown, fine, moist, no hydrocarbon odor **12-20' HOLLOW STEM AUGER**	12
2.5				13		Silty Clay: dark yellowish brown, fine, moist to wet @ 12 ft bgs, no hydrocarbon odor	13
				14		some bluish gray	14
4.2	SB-97 (14-16')			15		Sand: dark yellowish brown, very moist, no hydrocarbon odor	15
0.6				16		transitioned to moderate yellowish brown, medium to coarse grained sand	16
2.7				17			17
				18			18
2.5				19		thin clay layer	19
3.2	SB-97 (19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-98

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/6/17, HSA - 6/5/17	**NORTH COORDINATE** 36.48571 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55574 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY/ C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY/ C. D'APONTI

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4' HYDROVAC** - no samples collected Silty Sand: moderate brown	1
				2			2
				3			3
				4		**4-12' HAND AUGER** Silty Sand: moderate brown, fine, moist, no hydrocarbon odor	4
0				5		Silty Sandy Clay: moderate brown, fine, moist, no hydrocarbon odor	5
0.4				6			6
0.6				7			7
1.0				8			8
0.3			▽	9		wet @ 9 ft bgs	9
0.2				10		Silty Clay: light brown, fine, moist, no hydrocarbon odor	10
1.6				11		transitioned to reddish brown	11
2.0				12		**12-20' HOLLOW STEM AUGER**	12
0.2				13		Clay: moderate yellowish brown, fine, moist, slight hydrocarbon odor	13
5.3				14			14
9.2				15		Clayey Silt: black, fine, moist, hydrocarbon odor, wet to saturated	15
140				16			16
3,409	SB-98 (16-18')			17			17
990				18			18
35				19		Sand: moderate yellowish brown, saturated, slight hydrocarbon odor transitioned to light gray, no hydrocarbon odor	19
12	SB-98 (19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-99

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/13/17, HSA - 6/7/17	**NORTH COORDINATE** 36.48544 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55602 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		**0-6' HYDROVAC** - no samples collected Silty Sand: moderate yellowish brown	1–5
			▽	6		**6-12' HAND AUGER**	6
0.6	SB-99 (6-7')			6–7		Silty Sand: moderate yellowish brown, fine, wet @ 6 ft bgs, no hydrocarbon odor	6–7
0.7				7–8			7–8
0.5				8–9		Sandy Silt: moderate to dark yellowish brown, fine, wet to saturated, no hydrocarbon odor	8–9
1.6				9–10			9–10
0				10–11		Clayey Silt: dark yellowish brown, fine, saturated, no hydrocarbon odor	10–11
				11–12		**12-20' HOLLOW STEM AUGER**	11–12
0				12–13		Clayey Silt: moderate to dark yellowish brown, fine, wet, no hydrocarbon odor	12–13
0				13–14			13–14
0.1				14–15		transitioned to dark yellowish brown	14–15
0.1				15–16			15–16
0				16–17			16–17
3.0	SB-99 (17-18')			17–18			17–18
1.9				18–19		Silt: moderate yellowish brown, wet, no hydrocarbon odor	18–19
2.6	SB-989 (19-20')			19–20		Sand: dark yellowish brown, wet, slight hydrocarbon odor	19–20
				20–26		TD at 20 ft bgs	20–26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-100

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/13/17, HSA - 6/7/17	**NORTH COORDINATE** 36.48505 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55611 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-5' HYDROVAC** - no samples collected	1
				2		Silty Sand: dark yellowish brown	2
				3			3
				4			4
				5		**5-12' HAND AUGER**	5
0				6		Silty Sand: traces of clay, dark yellowish brown, fine, dry to slightly moist, no hydrocarbon odor.	6
0				7			7
0.2	SB-100 (7-8')			8			8
0.2				9		Clayey Silt: dark yellowish brown, fine, moist to wet, no hydrocarbon odor	9
0				10			10
0.5			▽	11		wet @ 11 ft bgs	11
0.3				12		**12-20' HOLLOW STEM AUGER**	12
0.3				13		Silt: moderate yellowish brown, fine, wet, no hydrocarbon odor	13
0				14		Silty Clay: dark yellowish brown, fine, moist, no hydrocarbon odor	14
0.3				15		thin layer of silt, soft	15
0.6				16			16
0				17			17
1.3				18			18
3.7	SB-100 (18-19')			19		Clay: dark yellowish brown, wet, slight staining of medium bluish gray	19
0	SB-100 (19-20')			20		Silt: dark yellowish brown, wet, no hydrocarbon odor Sand: moderate yellowish brown, wet, no hydrocarbon odor	20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-101

PROJECT NUMBER 05A1226001	**DRILLING DATE** 6/7/17	**NORTH COORDINATE** 36.48612 N
PROJECT NAME Largo CS	**DRILLING COMPANY** NA	**WEST COORDINATE** 107.55493 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 12 ft	**LOGGED BY** C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** C. D'APONTi

COMMENTS

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) 0–100	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-5' HYDROVAC** - no samples collected Silty Clay: moderate brown	1
				2			2
				3			3
				4			4
0				5		Silty Clay: moderate brown, fine, moist,no hydrocarbon odor.	5
0.7				6			6
0.7				7			7
0.4				8			8
1.1	SB-101 (9-10')		▽	9		Silty Clayey Sand: moderate brown, fine, wet @ 9 ft bgs, no hydrocarbon odor	9
0.7				10			10
0.5	SB-101 (11-12')			11			11
				12		TD at 12 ft bgs	12
				13			13
				14			14
				15			15

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-102

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 6/7/17
DRILLING COMPANY NA
BORING METHOD Hand Auger
TOTAL DEPTH 12 ft
BOREHOLE DIAMTER 8"

NORTH COORDINATE 36.48613 N
WEST COORDINATE 107.55529 W
SURFACE COMPLETION Plugged
LOGGED BY C. D'APONTI
SAMPLER C. D'APONTi

COMMENTS

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-5' HYDROVAC** - no samples collected Silty Clay: moderate brown	1
				2			2
				3			3
				4			4
				5		Silty Clay: moderate brown, fine, moist, hydrocarbon odor.	5
3,475				6			6
3,250				7			7
3,190				8			8
3,890	SB-102 (8-9')			9		intermittent black streaks	9
1,830			▽	10		Silty Clayey Sand: moderate brown, fine, wet @ 10 ft bgs, hydrocarbon odor	10
380				11			11
280	SB-102 (11-12')			12			12
205				13		TD at 13 ft bgs	13
				14			14
				15			15

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-103

PROJECT NUMBER 05A1226001	**DRILLING DATE** 6/7/17	**NORTH COORDINATE** 36.48613 N
PROJECT NAME Largo CS	**DRILLING COMPANY** NA	**WEST COORDINATE** 107.55614 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 12 ft	**LOGGED BY** C. D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** C. D'APONTi

COMMENTS

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-6' HYDROVAC** - no samples collected Silty Sand: moderate brown	1
				2			2
				3			3
				4			4
				5			5
				6			6
0.6						Silty Sand: moderate brown, fine, moist, no hydrocarbon odor	
	SB-103 (7-8')			7			7
1.8						Silty Sandy Clay: grayish black, fine, moist, no hydrocarbon odor	
				8		transitioned to moderate brown, some gravel	8
0.8							
				9			9
0.9							
				10			10
0.9							
				11		transitioned to gray	11
	SB-103 (11-12')						
1.2				12		TD at 12 ft bgs	12
				13			13
				14			14
				15			15

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-104

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/13/17, HSA - 6/6/17	**NORTH COORDINATE** 36.48537 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55498 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4.5' HYDROVAC** - no samples collected Silty Sand: moderate yellowish brown	1
				2			2
				3			3
				4		**4.5-12' HAND AUGER**	4
0				5		Silty Sand: moderate to dark yellowish brown, fine, dry to slightly moist, no hydrocarbon odor	5
0				6			6
0				7			7
0				8		Clayey Silt: dark yellowish brown and light olive gray with dark yellowish specs, fine, slightly moist, slight hydrocarbon odor	8
0.2	SB-104 (8-9')			9			9
0.1				10			10
0				11			11
0.1			▽	12		no hydrocarbon odor **12-20' HOLLOW STEM AUGER**	12
0				13		Silty Clay: dark yellowish brown, fine, moist, wet @ 12 ft bgs	13
1.9				14		transitioned to pale yellowish brown, dry to slightly moist	14
0.1				15			15
5.2				16		Clay: dark yellowish brown, moist, no hydrocarbon odor	16
6.2	SB-104 (16-17')			17			17
0.7				18			18
1.5				19		Silt: dark yellowish brown, fine, wet, no hydrocarbon odor	19
5.1	SB-104 (19-20')			20		Sand: moderate yellowish brown, medium coarse grained sand, wet to saturated, no hydrocarbon odor	20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-105

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/12/17, HSA - 6/6/17	**NORTH COORDINATE** 36.44553 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55502 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY/ C.D'APONTI
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY/ C. D'APONTI

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4.5' HYDROVAC** - no samples collected Silty Clay: moderate brown	1
				2			2
				3			3
				4		**4.5-12' HAND AUGER**	4
0				5		Silty Clay: moderate brown, fine, slightly moist, no hydrocarbon odor	5
2.7				6		transitioned to dark yellowish brown	6
1.4				7			7
1.0				8		transitioned to yellowish gray	8
0.6	SB-105 (11-12')			9		transitioned to pale yellowish gray	9
3.1				10		transitioned to light olive gray, one inch layer of black	10
2.7				11			11
12				12		**12-20' HOLLOW STEM AUGER**	12
21				13		Clay: some silt, grayish black with medium bluish gray, fine, moist, hydrocarbon odor	13
164	SB-105 (13-15')			14		transitioned to dark greenish gray	14
21.6				15		Silt: dark yellowish brown, fine, wet, no hydrocarbon odor	15
20				16			16
111				17		Sand: moderate yellowish brown, medium coarse grained sand, wet, no hydrocarbon odor	17
19				18			18
10.3				19			19
1.4	SB-105 (19-20')			20			20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-106

PROJECT NUMBER 05A1226001	**DRILLING DATE** *HA - 6/12/17, HSA - 6/6/17	**NORTH COORDINATE** 36.48542 N
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** 107.55514 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger/HSA	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 20 ft	**LOGGED BY** R.DEECHILLY
	BOREHOLE DIAMTER 8"	**SAMPLER** R.DEECHILLY

COMMENTS * Hand Auger (HA) borings were performed after Hollow Stem Auger (HSA) activities in an immediately adjacent boring to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%) (0–100)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-4.5' HYDROVAC** - no samples collected Silty Clay: dark yellowish brown	1
				2			2
				3			3
				4		**4.5-12' HAND AUGER**	4
827				5		Silty Clay: dark yellowish brown, fine, slightly moist, hydrocarbon odor	5
2,245				6			6
2,768	SB-106 (6-7')			7		black staining	7
142				8		Clay: dark yellowish brown with light olive gray, fine, moist, slight hydrocarbon odor	8
246				9		Clayey Silt: dark yellowish brown with yellowish orange specs, slightly moist, hydrocarbon odor	9
71				10			10
52.6				11		transitioned to medium bluish gray	11
26	SB-106 (11-12')			12		**12-20' HOLLOW STEM AUGER**	12
124				13		Silty Clay: black and dark yellowish brown, fine, moist, hydrocarbon odor	13
72				14		transitioned to black with dark greenish gray	14
55				15		transitioned to black with dark greenish gray to dark yellowish brown, slight hydrocarbon odor	15
84	SB-106 (15-17')			16			16
147				17			17
6.8				18			18
2.2			▽	19		Silty Sand: dark yellowish brown, fine, very moist, no hydrocarbon odor, black staining	19
2.4	SB-106 (19-20')			20		Sand: some silt, moderate yellowish brown, medium to coarse grained sand, wet @ 19 ft bgs, no hydrocarbon odor	20
				21		TD at 20 ft bgs	21
				22			22
				23			23
				24			24
				25			25
				26			26

Disclaimer This bore log should not be used separately from this report..

BORING LOG SB-107

PROJECT NUMBER 05A1226001	**DRILLING DATE** 6/13/17	**NORTH COORDINATE** 36.48572 N
PROJECT NAME Largo CS	**DRILLING COMPANY** NA	**WEST COORDINATE** 107.55540 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 12 ft	**LOGGED BY** R.Deechilly
	BOREHOLE DIAMTER 8"	**SAMPLER** R.Deechilly

COMMENTS

Note Soil boring logs were re-created using draft logs provided by Apex

PID (ppm)	Samples	Recovery (%)	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1		**0-6' HYDROVAC** - no samples collected Silt: light olive gray	1
				2			2
				3			3
				4			4
				5			5
				6			6
2,234						Silt: light olive gray with grayish black streaks, fine, slightly moist, hydrocarbon odor	
	SB-107 (7-8')			7			7
2,641						Clayey Silt: dark olive gray and dark yellowish brown to light olive gray, fine, slightly moist, hydrocarbon odor	
				8			8
1,741							
				9			9
2,472						Clay: dark gray to black, fine, soft, moist, hydrocarbon odor	
				10		transitioned to dark yellowish brown with black streaks, stiff	10
2,429							
				11		soft, very moist to wet @ 12 ft bgs	11
	SB-107 (11-12')						
1,810			▽	12		TD at 12 ft bgs	12
				13			13
				14			14
				15			15

Disclaimer This bore log should not be used separately from this report..

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

Client: Enterprise Field Services
Project Name: Largo Compressor Station
Project Location: Rio Arriba County, New Mexico
Project Manager: Kyle Summers

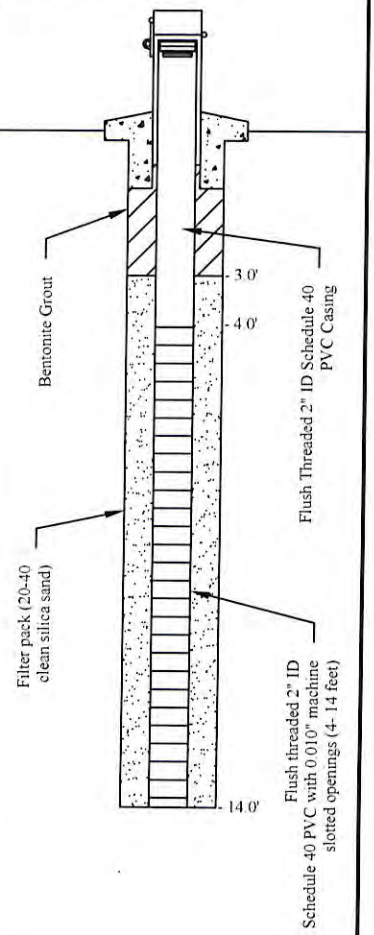
BORING LOG NUMBER
SVET-1
Project # 725040112154

Date Sampled: 6/5/17 and 6/7/17
Drilled by: Enviro-Drill
Driller: A. Kennedy
Logged by: R. Deechilly
Sampler: R. Deechilly

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: 36.48596
West Coordinate: -107.55522
Bench Mark Elevation: N/A
At Completion
At Well Stabilization

Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion: Stick-up
Boring Method: Hollow Stem Auger

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
							*Hand Auger (HA) borings were performed before Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HSA and HA activities were then combined.
0				-			**0-6' HYDROVAC** - no samples collected SILTY CLAY: moderate yellowish brown
				-			
				-			
				-			
				-			
5				-			
		6-7'		2350			**6-10' HAND AUGER** SILTY CLAY: moderate yellowish brown, fine, slightly moist to moist, hydrocarbon odor
				1963			
			100	2314			
				2106			
10				-			10-12' no recovery -wet @ 11 ft bgs
				-			
		12-12.5'		2546			**12-14' HOLLOW STEM AUGER** SILTY CLAY: dark yellowish brown, fine, very moist, no hydrocarbon odor
			80	149.6			CLAY: dark yellowish brown, soft, moist, some staining, hydrocarbon odor
		13.5-14'		699			SILT: moderate yellowish brown, moist, hydrocarbon odor, black staining
				347			SANDY SILT: moderate yellowish brown, wet, hydrocarbon odor, staining
15							TOTAL DEPTH OF BORING - 14.0 feet BGS
20							
25							



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

Client: Enterprise Field Services
Project Name: Largo Compressor Station
Project Location: Rio Arriba County, New Mexico
Project Manager: Kyle Summers

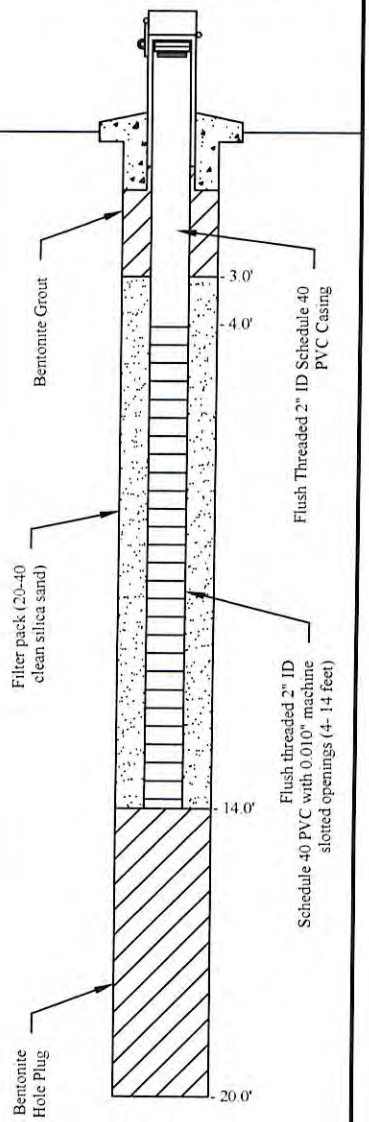
BORING LOG NUMBER
SVET-2
Project # 725040112154

Date Sampled: 6/5/17 and 6/7/17
Drilled by: Enviro-Drill
Driller: A. Kennedy
Logged by: R. Deechilly
Sampler: R. Deechilly

Ground Surface Elevation: N/A
Top of Casing Elevation: N/A
North Coordinate: 36.48599
West Coordinate: -107.55524
Bench Mark Elevation: N/A
At Completion
At Well Stabilization

Borehole Diameter: 8"
Casing Diameter: 2"
Well Materials: PVC
Surface Completion: Stick-up
Boring Method: Hollow Stem Auger

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIOMETRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0				-			*Hand Auger (HA) borings were performed before Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HSA and HA activities were then combined.
				-			**0-6' HYDROVAC** - no samples collected
				-			SILTY CLAY: moderate yellowish brown
				-			
				-			
5				-			
				1442			**6-10' HAND AUGER**
	X	7-8'		2462			SILTY CLAY: moderate yellowish brown, fine, slightly moist to moist, hydrocarbon odor
			100	1356			
				1928			
10				-			-10-12' no recovery
				-			-wet @ 11 ft bgs
				2380			**12-20' HOLLOW STEM AUGER**
	X	12-13.5'					CLAY: dark yellowish brown, fine, stiff, wet, hydrocarbon odor
				243			CLAYEY SILT: dark yellowish brown, fine, wet, black staining
15				399			CLAY: dark yellowish brown, fine, wet, black staining
			40	329			SILTY SAND: dark yellowish brown, fine, wet, black staining
				611			SAND: moderate yellowish brown, medium grained sand, saturated
				176			SANDY SILT: moderate yellowish brown, fine, wet, hydrocarbon odor
	X	19-20'		66.9			
20							TOTAL DEPTH OF BORING - 20.0 feet BGS
25							



BORING LOG SB-108

PROJECT NUMBER 05A1226001	**DRILLING DATE** 7/02/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Ensolum, LLC	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 3 ft bgs	**LOGGED BY** R.Deechilly
		SAMPLER NA

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Depth (ft)	Graphic Log	Material Description	Depth (ft)
0 0.2 0.1	No Sample		0.5 1 1.5 2 2.5 3		Silty Sand: moderate yellowish brown, dry to slightly moist, no hydrocarbon odor	0.5 1 1.5 2 2.5 3
			3.5 4 4.5 5 5.5 6 6.5 7 7.5		Auger Refusal at 3 ft bgs - Hit Rock	3.5 4 4.5 5 5.5 6 6.5 7 7.5

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-109

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 7/02/18
DRILLING COMPANY Ensolum, LLC
BORING METHOD Hand Auger
TOTAL DEPTH 9 ft bgs

NORTH COORDINATE NA
WEST COORDINATE NA
SURFACE COMPLETION Plugged
LOGGED BY C. D'Aponti
SAMPLED BY C. D'Aponti

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
0.3				1		Sand: pale yellowish brown, fine grained, dry	1
				2		Clay: dark yellowish brown, dry	2
0.7				3			3
				4			4
				5		Silty Clay: pale yellowish brown, dry	5
1.7				6			6
				7		Sandy Silty Clay: pale to dark yellowish brown, very fine grained, dry to wet at 9 ft bgs	7
2.0	SB-109 (9')		▽	8			8
				9		TD at 9 ft bgs	9
				10			10
				11			11
				12			12
				13			13
				14			14
				15			15
				16			16
				17			17
				18			18
				19			19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-110

PROJECT NUMBER 05A1226001	**DRILLING DATE** 7/02/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Ensolum, LLC	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 11.5 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLED BY R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
0.2				1		Silty Sand: traces of clay, moderate yellowish brown, dry to moist, no hydrocarbon odor	1
0.1				2			2
0.3				3			3
0.6				4			4
0.3				5		Silty Clay: moderate yellowish brown, moist, no hydrocarbon odor, trace of sulfates at 5'-6' and 7'-8'	5
0.6		100		6			6
0.4				7			7
0.4				8			8
0.6				9			9
0.5	SB-110 (9-10')			10			10
	SB-110 (10-11')		▽	11		Clay: moderate yellowish brown, moist to wet, no hydrocarbon odor, apparent staining	11
				12		TD at 11.5 ft bgs	12
				13			13
				14			14
				15			15
				16			16
				17			17
				18			18
				19			19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-111

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 7/02/18
DRILLING COMPANY Ensolum, LLC
BORING METHOD Hand Auger
TOTAL DEPTH 12.5 ft bgs

NORTH COORDINATE NA
WEST COORDINATE NA
SURFACE COMPLETION Plugged
LOGGED BY C. D'Aponti
SAMPLER C. D'Aponti

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
0.2				1–3		Silty Sand: medium grained, pale yellowish brown, dry, no hydrocarbon odor	1–3
0.3				4–5		Silty Sandy Clay: some gravel, pale to dark yellowish brown and gray, dry, no hydrocarbon odor	4–5
0.3				6–7		Sandy Clay: fine grained with gravel, pale to dark yellowish brown to gray, dry, no hydrocarbon odor	6–7
0.5				8–12		Silty Clay: dark yellowish brown, dry	8–12
0.7				10			10
1.7	SB-111 (12.5')			12		Sandy Clay: dark yellowish brown, wet, no hydrocarbon odor	12
				13		TD at 12.5 ft bgs	13
				14–19			14–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-112

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 7/02/18
DRILLING COMPANY Ensolum, LLC
BORING METHOD Hand Auger
TOTAL DEPTH 10 ft bgs

NORTH COORDINATE NA
WEST COORDINATE NA
SURFACE COMPLETION Plugged
LOGGED BY R. Deechilly
SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
1.6		100	▽	1		Silty Sand: trace amounts of clay from 3'-6', moderate yellowish brown, dry to slightly moist, no hydrocarbon odor	1
0.3				2			2
0.4				3			3
0.8				4			4
2.2	SB-112 (5-6')			5		Slight hydrocarbon odor	5
2,731				6		Silty Clayey Sand: moderate yellowish brown to medium dark gray to grayish black, moist, hydrocarbon odor	6
2,914	SB-112 (7-8')			7			7
2,773	SB-112 (8-9')			8			8
513	SB-112 (9-10')			9		Sand: medium gray to moderate yellowish brown, wet, hydrocarbon odor	9
				10		TD at 10 ft bgs	10
				11			11
				12			12
				13			13
				14			14
				15			15
				16			16
				17			17
				18			18
				19			19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-113

PROJECT NUMBER 05A1226001	**DRILLING DATE** 7/02/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Ensolum, LLC	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Hand Auger	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 10 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
42		100	▽	1		Silty Clay: trace amounts of sulfates 4'-5', moderate yellowish brown, slightly moist, slight hydrocarbon odor	1
26				2			2
67	SB-113 (3-4')			3			3
12.1				4			4
6.6				5			5
3.0				6			6
4.3				7		Silty Clayey Sand: moderate yellowish brown, moist, no hydrocarbon odor, slight gray staining at 10'	7
7.3				8			8
0.8	SB-113 (9-10')			9			9
				10		TD at 10 ft bgs	10
				11			11
				12			12
				13			13
				14			14
				15			15
				16			16
				17			17
				18			18
				19			19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-114

PROJECT NUMBER 05A1226001	**DRILLING DATE** 9/04/18	**NORTH COORDINATE** 36.48614 N
PROJECT NAME Largo CS	**DRILLING COMPANY** GEOMAT, INC	**WEST COORDINATE** 107.55551 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Geoprobe	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 12 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–6		0-6'-Hydrovac - no samples collected	1–6
		0%		6–8		No Recovery	6–8
0	SB-114 (8-10')			8–10		Silty Sandy Clay: dark yellowish brown, moist, no hydrocarbon odor, slight medium gray staining	8–10
0	SB-114 (10-12')	80%	▽	10–12		Sand: moderate yellowish brown, wet to saturated, no hydrocarbon odor	10–12
				12–19		TD at 12 ft bgs	12–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-115

PROJECT NUMBER 05A1226001	**DRILLING DATE** 9/04/18	**NORTH COORDINATE** 36.48613 N
PROJECT NAME Largo CS	**DRILLING COMPANY** GEOMAT, INC	**WEST COORDINATE** 107.55544 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Geoprobe	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 12 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
380		10%		6		Silty Clay: dark yellowish brown, moist, no hydrocarbon odor, specks of medium gray staining	6
0	SB-115 (8-10')			7–9			7–9
0	SB-115 (11-12')	70%	▽	10		Sandy Silt: transitioning to sand, moderate to dark yellowish brown, no hydrocarbon odor, wet to saturated	10
0.1				11–12			11–12
				12		TD at 12 ft bgs	12
				13–19			13–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-116

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 9/04/18
DRILLING COMPANY GEOMAT, INC
BORING METHOD Geoprobe
TOTAL DEPTH 16 ft bgs

NORTH COORDINATE 36.48613 N
WEST COORDINATE 107.55536 W
SURFACE COMPLETION Plugged
LOGGED BY R. Deechilly
SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
3,613	SB-116 (6-10')	20%		6–10		Clay: dark yellowish brown, moist, hydrocarbon odor, black staining at 8'-11'	6–10
2,205							
450		60%					
9.8			▽	11–12		Sand: medium grained, moderate yellowish brown, no hydrocarbon odor, moist	11–12
						wet at 12 ft bgs	
9.8				13			13
	SB-116 (14-16')	80%		14		transitioning to sandy silt, slight hydrocarbon odor at 14.5'	14
0.3				15–16			15–16
				16		TD at 16 ft bgs	16
				17–19			17–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-117

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 9/04/18
DRILLING COMPANY GEOMAT, INC
BORING METHOD Geoprobe
TOTAL DEPTH 16 ft bgs

NORTH COORDINATE 36.48613 N
WEST COORDINATE 107.55518 W
SURFACE COMPLETION Plugged
LOGGED BY R. Deechilly
SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
1,847	SB-117 (6-8')	20%		6–8		Clay: transitioning to silty clay, dark yellowish brown, moist, hydrocarbon odor, black staining at 8'	6–8
838		90%	▽	9–10			9–10
13.6				10		Silty Sand: transitioning to sand, dark yellowish brown, wet, no hydrocarbon odor	10
6.9				11–15		Sand: medium to coarse grained, moderate yellowish brown, wet, no hydrocarbon odor	11–15
9.7				16			16
1.6	SB-117 (14-16')	80%		17–19		TD at 16 ft bgs	17–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-118

PROJECT NUMBER 05A1226001	**DRILLING DATE** 9/04/18	**NORTH COORDINATE** 36.48613 N
PROJECT NAME Largo CS	**DRILLING COMPANY** GEOMAT, inc	**WEST COORDINATE** 107.55508 W
CLIENT Enterprise Field Services, LLC	**BORING METHOD** Geoprobe	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 16 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
1,626		80%		6		Clay: dark yellowish brown, moist, hydrocarbon odor, medium dark gray staining	6
	SB-118 (8-10.5')			7–9			7–9
1,686		70%	▽	10			10
7.2				11		Sand: moderate yellowish brown, moist to wet, no hydrocarbon odor	11
0.9				12–13		Sand: medium to coarse grained, moderate yellowish brown, slight gray staining @ 12'-13', wet, no hydrocarbon odor,	12–13
	SB-118 (14-16')	80%		14–15			14–15
0				16			16
				17–19		TD at 16 ft bgs	17–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-119

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 9/04/18
DRILLING COMPANY GEOMAT, INC
BORING METHOD Geoprobe
TOTAL DEPTH 16 ft bgs

NORTH COORDINATE 36.48613 N
WEST COORDINATE 107.55499 W
SURFACE COMPLETION Plugged
LOGGED BY R. Deechilly
SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
2,147		80%		6–7		Silty Clay: dark yellowish brown, moist, hydrocarbon odor, black with dark gray staining	6–7
2,508	SB-119 (8-10')		▽	8–9		Clay: dark yellowish brown with black staining, moist, hydrocarbon odor, wet layer of sand at 9'	8–9
30.3		70%		10			10
2.5				11–15		Sand: medium to coarse grained, moderate yellowish brown, faint hydrocarbon odor at 11'-12', wet, some gray staining at 14', no hydrocarbon odor 12'-16'	11–15
10		80%		16			16
0.4	SB-119 (14-16')			17–19		TD at 16 ft bgs	17–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-120

PROJECT NUMBER 05A1226001	**DRILLING DATE** 9/04/19	**NORTH COORDINATE** 36.48608 N
PROJECT NAME Largo CS	**DRILLING COMPANY** GEOMAT, INC	**WEST COORDINATE** 107.55500 W
CLIENT Enterprise Field Services, LLC	**DRILLING METHOD** Geoprobe	**SURFACE COMPLETION** Plugged
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 16 ft bgs	**LOGGED BY** R. Deechilly
		SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–5		0-6' Hydrovac - no samples collected	1–5
0.1		70%		6–8		Clay: dark yellowish brown, moist, no hydrocarbon odor, traces of oxidation at 6'-8', stiff at 8'-9'	6–8
0.3	SB-120 (8-9')		▽	9			9
0.1		80%		10		Silty Sandy Clay: dark yellowish brown, moist to wet, no hydrocarbon odor	10
0				11–13		Sand: medium to coarse grained, moderate yellowish brown, wet to saturated, no hydrocarbon odor	11–13
0.1		70%		14			14
0	SB-120 (14-16')			15–16			15–16
				17–19		TD at 16 ft bgs	17–19

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG SB-121

PROJECT NUMBER 05A1226001
PROJECT NAME Largo CS
CLIENT Enterprise Field Services, LLC
LOCATION Rio Arriba County, NM

DRILLING DATE 9/04/18
DRILLING COMPANY GEOMAT, INC
BORING METHOD Geoprobe
TOTAL DEPTH 20 ft bgs

NORTH COORDINATE 36.48610 N
WEST COORDINATE 107.55551 W
SURFACE COMPLETION Plugged
LOGGED BY R. Deechilly
SAMPLER R. Deechilly

NOTE: Soil boring logs were re-created using draft logs provided by Apex

PID	Samples	% Recovery	Water	Depth (ft)	Graphic Log	Material Description	Depth (ft)
				1–7		0-8' Hydrovac - no samples collected	1–7
0		20%		8–11		Clayey Silt: some gravel, dark yellowish brown, saturated, no hydrocarbon odor	8–11
0	SB-121 (12-14')			12–13		Clayey Sand: moderate yellowish brown, saturated, no hydrocarbon odor	12–13
1.2	SB-121 (14-16')	60%		14–15		Sand: gray to moderate yellowish brown, saturated, organic decay odor at 15 ft bgs	14–15
				16		no recovery 16'-20'	16
		0%		17–19			17–19
				20		TD at 20 ft bgs	20
				21			21

Disclaimer This bore log is intended for environmental not geotechnical purposes.

BORING LOG AS-1

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/3/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand: moderate yellowish brown, slightly moist, no hydrocarbon odor		
4						**6-10' HAND AUGER**		
6	0							concrete cement grout
8	0.0					**10-27' HOLLOW STEM AUGER**		
10	0.0					Sand: tan, well-graded, soft, very fine to fine-grained, low silt percent, moist/damp, no hydrocarbon odor		
	0.1							
12	0.1							
	0.1							
14								
16	0.2							
	0.3					Clayey Sand: brown to olive, low plasticity, zone of little to no clay, moist, wet at 20.5', no hydrocarbon odor		bentonite
18								
20	60			▽				
		AS-1 (21.5')				Sand: black, very fine to medium-grained, wet, hydrocarbon odor		
	634							
22	525							
24						Silty Sand: tan to olive, very fine to fine-grained, wet		filter pack
	3.5							
26	1.1					Sand: tan, fine to medium-grained, soft, wet, no hydrocarbon odor		
28						TD at 27 ft bgs		

Disclaimer This bore log should not be used separately from this report..

BORING LOG AS-2

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/3/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Material Description	Staining	Well Diagram
-2				
0		**0-10' HYDROVAC**		
		Silty Sand		
2				
4				
		6-10' HAND AUGER		
6	0	Silty Sand to Sand: tan, very fine to medium-grained, some silty layers, dry to moist, no hydrocarbon odor		concrete cement grout
8	0.0			
		10-27' HOLLOW STEM AUGER		
10	0.0	Sand: tan/brown, very fine to fine-grained, damp, soft, increase in silt percent		
	0.2			
12	0.2			
14				
	4.5			
16	12.7	Clayey Sand to Clay: tan to brown,low plasticity, gypsum crystals, varying percent of clay, moist		bentonite
18				
20	15.7	▽		
	415	Sand: black to brown, well-graded, very fine to medium-grained, wet at 20.5', hydrocarbon odor, staining		
22	42			
24				
	916			filter pack
26	135	Silty Clayey Sand to Sand: brown transitioning to tan, layered, soft, low plasticity, well-graded sand, tight, fine to medium grained sand, wet no hydrocarbon odor		
	12.0			
28		TD at 27 ft bgs		

Disclaimer This bore log should not be used separately from this report..

BORING LOG AS-3

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/2/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
						0-10' HYDROVAC		
0						Silty Sand		
2								
4						**6-10' HAND AUGER**		
6	0					Silty Sand to Sand: tan to brown, poorly graded, fine to coarse, some gravels 9'-10', moist, no hydrocarbon odor		concrete cement grout
8	0.0							
10	0.0							
12	0.2					**10-27' HOLLOW STEM AUGER**		
14						Sand with Clay and Low Silts: brown, very fine to medium-grained sand, some calcite in clays, wet at 21' - sand layer, staining at 20.25 - 21.50', no staining after 21.5', lessening clays and increase in silts with depth,		
16	0.1							bentonite
18								
20	2750			▽				
	44							
22	38.5					Sand to Silty Sand: brown/grey, very fine to fine-grained sand, wet, no hydrocarbon odor		
24								
26	4.0							filter pack
28						TD at 27 ft bgs		

Disclaimer This bore log should not be used separately from this report..

BORING LOG AS-4

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/3/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27.5 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								
6	0					**6-10' HAND AUGER**		
8	0.0					Silty Sand to Sand: tan to white, poorly graded, no hydrocarbon odor, low percent clays at 8', low percent fines at 10', 1" clayey sand layer at 11.5'		concrete cement grout
10	0.0					**10-27' HOLLOW STEM AUGER**		
12	0.1							
14								
16						Clayey Silty Sand: tan to brown, very fine to medium-grained sand, high percent clays at top, low impacts/no staining, interbedded layers of clay and silt, impacts at 25' - 26'		bentonite
18								
20	1.0							
22	25.5							
24								
26	2445 24.5 2.1					Sand: tan to white, well-graded, fine to coarse-grained sand, no hydrocarbon odor		filter pack
28						TD at 27.5 ft bgs		
30								

Disclaimer This bore log should not be used separately from this report..

BORING LOG AS-5

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/3/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								
6	0					**6-10' HAND AUGER**		
8	0.0					Silty Sand to Sand: tan, layered silty sand, moist/damp, no hydrocarbon odor		concrete cement grout
10	0.0					**10-27' HOLLOW STEM AUGER**		
12	0.2 1.8					Sand: tan, well-graded, very fine to fine-grained		
14	2.4							
16	11.3							
18	12.0					Clayey Sand: brown to olive, very fine-grained sand, no hydrocarbon odor, no stain		bentonite
20	20	AS-5 (21')		▽				
22	357 13.5					Sand: white/grey, very fine to medium-grained, wet, slight hydrocarbon odor		
24						Silty Sand: brown, very fine-grained, wet		
26	145 4.7					Sand: tan, well-graded, very fine to medium-grained, no hydrocarbon odor		filter pack
28						TD at 27 ft bgs		

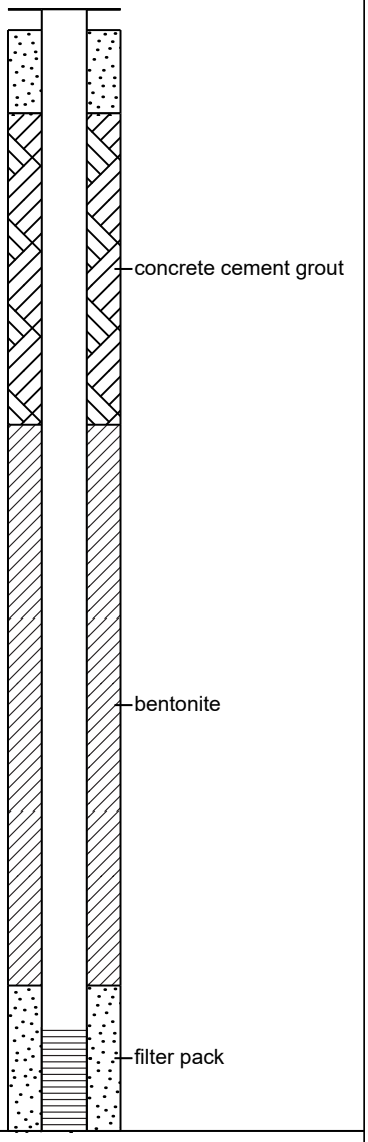
Disclaimer This bore log should not be used separately from this report..

BORING LOG AS-6

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/3/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 27 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 8.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
						Silty Sand		
2								
4								
						6-10' HAND AUGER		
6	0.5					Silty Sand: tan to brown, very fine to fine-grained, moist at depth		
8	0.0					**10-27' HOLLOW STEM AUGER**		
						Sand: tan, very fine to fine-grained, damp, soft, no hydrocarbon odor		
10	0.0							
	0.1							
12	0.2							
	0.8							
14								
	1.1							
16	2.1					Clayey Silty Sand: brown to olive, alternating layers of clay and silt with sand, no hydrocarbon odor		
18								
20	3.5							
	45	AS-6 (21.5')		▽		Sand: grey to black, very fine to medium-grained, wet below 21', degraded hydrocarbon odor		
22								
24						Silty Sand: olive to brown, very fine-grained, wet, soft, no hydrocarbon odor		
	2.4							
26						Sand: tan, well-graded, very fine to medium-grained, wet, no hydrocarbon odor, no staining		
	1.0							
28						TD at 27 ft bgs		



Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-1

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/5/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0					**6-10' HAND AUGER**		
8	0					Silty Sand: brown to tan, very fine-grained, damp, no hydrocarbon odor		
10	0					**10-22' HOLLOW STEM AUGER**		
12						Sand: brown, very fine to fine-grained, damp		
14								filter pack
16	0.1 1.7					Clayey Silty Sand		
18	17.8 1955	SVE-1 (18')				Sand with some Silty Sand: black to dark grey, very fine to medium-grained, layered with some 2 " silty intervals, wet below 19', hydrocarbon odor		
20	105 1665 771 280	SVE-1 (20')		▽				
22	311					Silty Sand: black, very fine-grained sands, wet, hydrocarbon odor		
24						TD at 22 ft bgs		
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-2

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/4/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0.0					**6-10' HAND AUGER**		
8	0.0					Silty Sand: tan to brown, some gravel, damp, no hydrocarbon odor		
10	0.1					**10-22' HOLLOW STEM AUGER**		
12						Sand: brown, well-graded, very fine to fine-grained, damp		filter pack
14								
16	0.1							
18	0.1 11.3					Silty Sand: brown to black, very fine-grained, moist, soft, hydrocarbon staining at 16.5'		
20	2845 1726	SVE-2 (19') SVE-2 (20')		▽		Sand: black to grey, well-graded, very fine to fine-grained, moist to wet, degraded hydrocarbon odor		
22	27.6 16.5					Silty Sand: grey, very fine-grained sands, wet, soft, slight hydrocarbon odor Clayey Sand: grey, low plasticity, wet, slight hydrocarbon odor		
24						TD at 22 ft bgs		
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-3

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/4/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
						Silty Sand		
2								
4								bentonite
						6-10' HAND AUGER		
6	0.0					Silty Sand to Sand: tan to brown, very fine to fine-grained, damp, no hydrocarbon odor		
8	0.5					**10-22' HOLLOW STEM AUGER**		
						Sand: brown, well-graded, very fine-grained, damp, soft		
10	0.0							
12								
14								filter pack
	0.1							
16	0.2					Silty Sand: brown, damp, soft		
	0.6					Clayey Sand:some high percent clay, low plasticity, soft, damp		
18	531					Sand: brown (damp) to black to grey, poorly graded, moist to wet, hydrocarbon odor and staining at 18.5'		
	666							
20	1311	SVE-3 (20.5')		▽				
						Silty Sand: grey, very fine-grained sands, soft, wet		
22	2.6					Clayey Sand: grey, low plasticity, wet, slight hydrocarbon odor		
						TD at 22 ft bgs		
24								
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-4

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/5/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0.0					**6-10' HAND AUGER**		
8	0.5					Silty Sand: tan, very fine-grained with trace gravels, damp, no hydrocarbon odor		
10	0.2					**10-22' HOLLOW STEM AUGER**		
12						Sand: brown, very fine to fine-grained, soft, damp, no hydrocarbon odor		
14								filter pack
16	0.1 12.8					Silty Sand		
18	34 156					Clayey Sand: brown, moist, some mottling - gypsum inclusions Sand: tan to black, very fine to medium-grained, wet below 19.5', degraded hydrocarbon odor		
20	2301 140	SVE-4 (19')		▽				
22	46.7 5.2					Silty Sand: grey to olive, very fine-grained sands, wet, slight hydrocarbon odor Clayey Sand: olive, low plasticity, wet		
24						TD at 22 ft bgs		
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-5

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/5/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0.0					**6-10' HAND AUGER**		
8	0.0					Silty Sand: tan to brown, very fine-grained, damp, no hydrocarbon odor		
10	0.0					**10-22 HOLLOW STEM AUGER**		
12						Sand: brown, very fine to medium-grained, damp, soft/loose		
14								filter pack
16	1.2					Silty Clay: brown, low to medium plasticity, soft, moist, no hydrocarbon odor		
18	5.5					Sand: brown to black to grey, very fine to medium-grained, soft, moist to wet, slight hydrocarbon odor with depth		
	550	SVE-5 (19')						
20	142			▽				
22	136 3.2					Silty Sand: grey to brown streaks/layered, very fine-grained sands, wet Clayey Sand: Brown/grey, mottled, soft, wet, slight hydrocarbon odor		
24						TD at 22 ft bgs		
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-6

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/4/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0.0					**6-10' HAND AUGER** Silty Sand to Sand: tan to brown, very fine to fine-grained, damp, no hydrocarbon odor		
8	0.0					**10-22' HOLLOW STEM AUGER**		
10	0.0					Sand: tan, very fine to fine-grained, soft, damp, no hydrocarbon odor		
12								
14								filter pack
	0.2							
16	0.2					Clayey Sand: brown with maroon layers, very fine-grained sand, low plasticity, damp		
						Sand: brown, very fine to fine-grained, moist, slight degraded hydrocarbon odor		
18	7.5							
	22			▽		Clayey Sand: brown to grey, very fine-grained, low plasticity, very moist, some hydrocarbon odor and staining		
20	35	SVE-6 (20')				Sand: White/grey, well-graded, fine to medium-grained, wet, slight degraded hydrocarbon odor		
	13.5					Clayey Silty Sand (layered clays and silts with sand): very fine-grained, mottled, low to medium plasticity, wet		
22	0.5					TD at 22 ft bgs		
24								
26								
28								

Disclaimer This bore log should not be used separately from this report..

BORING LOG SVE-7

PROJECT NUMBER 05A1226001	**DRILLING DATE** 3/28/18, 4/4/18	**NORTH COORDINATE** NA
PROJECT NAME Largo CS	**DRILLING COMPANY** Enviro-Drill	**WEST COORDINATE** NA
CLIENT Enterprise Field Services, LLC	**BORING METHOD** HSA / Hand Auger	**SURFACE COMPLETION** Subgrade Vault
LOCATION Rio Arriba County, NM	**TOTAL DEPTH** 22 ft	**LOGGED BY** S.Crawford / R.Deechilly
	BOREHOLE DIAMTER 10.25"	**SAMPLER** S.Crawford

Notes: Soil boring logs were re-created using draft logs provided by Apex.
* Hand Auger (HA) borings were performed prior to Hollow Stem Auger (HSA) activities to obtain additional shallow soil information. The boring logs from the HA and HSA activities were then combined.

Depth (ft)	PID (ppm)	Samples	Recovery (%)	Water	Graphic Log	Material Description	Staining	Well Diagram
-2								
0						**0-10' HYDROVAC**		
2						Silty Sand		
4								bentonite
6	0					**6-10' HAND AUGER**		
8	0.0					Silty Sand to Sand: tan to brown, low silt percent, damp, no hydrocarbon odor		
10	0.0					**10-22' HOLLOW STEM AUGER**		
12						Sand: tan to brown, very fine to fine-grained, soft, damp, no hydrocarbon odor		
14								filter pack
16	0.1 0.1					Silty Sand: tan to brown, layered with low silt percent, no hydrocarbon odor		
18	6.1 48					Clayey Sand: olive, very fine-grained, soft, moist, no hydrocarbon odor		
20	199 99	SVE-7 (19')		▽		Silty Sand: black, staining, soft, very moist, hydrocarbon odor		
22	56 21					Sand: black to grey, well-graded, very fine to medium-grained, hydrocarbon odor		
24						Silty Sand: black, very fine-grained, wet		
26						TD at 22 ft bgs		
28								

Disclaimer This bore log should not be used separately from this report..

ENSOLUM

APPENDIX D

New Mexico Office of the State Engineer Permit Approvals

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Tom Blaine, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

June 28, 2017

Tom Long
Enterprise Products
614 Reilly Ave.
Farmington, NM 87401

RE: Permit Approval to Drill Wells with no Water Right, SJ-4249 POD1 and POD2, Enterprise Products, Largo Compressor Station

Dear Mr. Long:

On June 20, 2017, the New Mexico Office of the State Engineer (NMOSE) received an application to permit two newly installed groundwater monitoring/soil vapor extraction wells associated with the above referenced location. Enclosed is a copy of the above numbered permit, which has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval.

A standardized plugging method has also been included in the Conditions of Approval for the future abandonment of the wells covered by this permit. This eliminates the need to submit a separate Well Plugging Plan of Operations for approval by the NMOSE prior to plugging, unless an alternate plugging method is proposed, required by a separate oversight agency, necessary due to incompatibility with actual conditions, or artesian conditions are encountered. Please be aware that there are deadlines to submit well records for the newly installed wells and plugging records for any abandoned wells. These deadlines can be found in the attached Conditions of Approval. The well and plugging records should be sent to the NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410.

Also, if there are any additional existing non-permitted wells associated with this site investigation, NMOSE requests that these existing wells be brought into compliance by obtaining permit coverage. If you have any questions regarding this permitting action, please feel free to contact me at (505) 334-4751.

Sincerely,

Kimberly Kirby
Water Resource Specialist
Water Rights Division District V

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4249 File
WATERS
Kyle Summers, Apex TITAN, Inc., via email: ksummers@apexcos.com

File No. SJ - 4249 POD1 and POD2

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2017 JUN 20 PM 2:42

Purpose:	☐ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 6/20/17 K.J. Requested End Date: Unknown

Plugging Plan of Operations Submitted? ☐ Yes ☒ No OSE Notation: A standardized plugging method has been included in the Conditions of Approval for final abandonment of the wells covered by this permit.

1. APPLICANT(S)

Name: Enterprise Products	Name: Apex Titan, Inc.
Contact or Agent: Thomas Long — check here if Agent ☐	Contact or Agent: Kyle Summers — check here if Agent ☒
Mailing Address: 614 Reilly Ave.	Mailing Address: 606 South Rio Grande, Suite A
City: Farmington	City: Aztec
State: New Mexico Zip Code: 87401	State: New Mexico Zip Code: 87410
Phone: 505-215-4727 ☐ Home ☒ Cell Phone (Work):	Phone: 903-821-5603 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): tjlong@eprod.com	E-mail (optional): ksummers@apexcos.com

FOR OSE INTERNAL USE — Application for Permit, Form WR-07, Rev 11/17/16

File No.: SJ - 4249	Trn. No.:	Receipt No.:
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: June 28, 2018	

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SJ-4249 POD1 SVET-1	-107.55522	36.48596	SE 1/4, S15 T26N R7W
SJ-4249 POD2 SVET-2	-107.55524	36.48599	SE 1/4, S15 T26N R7W

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ■ No **If yes, how many**

Other description relating well to common landmarks, streets, or other:
See Attached Map

Well is on land owned by: Enterprise

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ■ No
If yes, how many_____

Approximate depth of well (feet): 14	Outside diameter of well casing (inches): 2.25
Driller Name: Enviro-Drill Inc.	Driller License Number: WD 1186

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2017 JUN 20 PM 2:42

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

The soil vapor extraction test (SVET) wells are located on Enterprise property at the Largo Compressor Station in Rio Arriba County, NM. The primary objective of the soil investigation was to further delineate the extent of hydrocarbon impact to soil at the Site. Two (2) SVET wells were completed at 14 feet below grade surface (bgs), utilizing a hollow-stem auger drilling rig.

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: SJ-4249 POD1 and POD2	Trn No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application.

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ■ Include the reason for the monitoring well, and, ■ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)) Thomas J Long
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Thomas Long
Applicant Signature

Applicant Signature

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2017 JUN 20 PM 2:42

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 28th day of June 20 17, for the State Engineer,

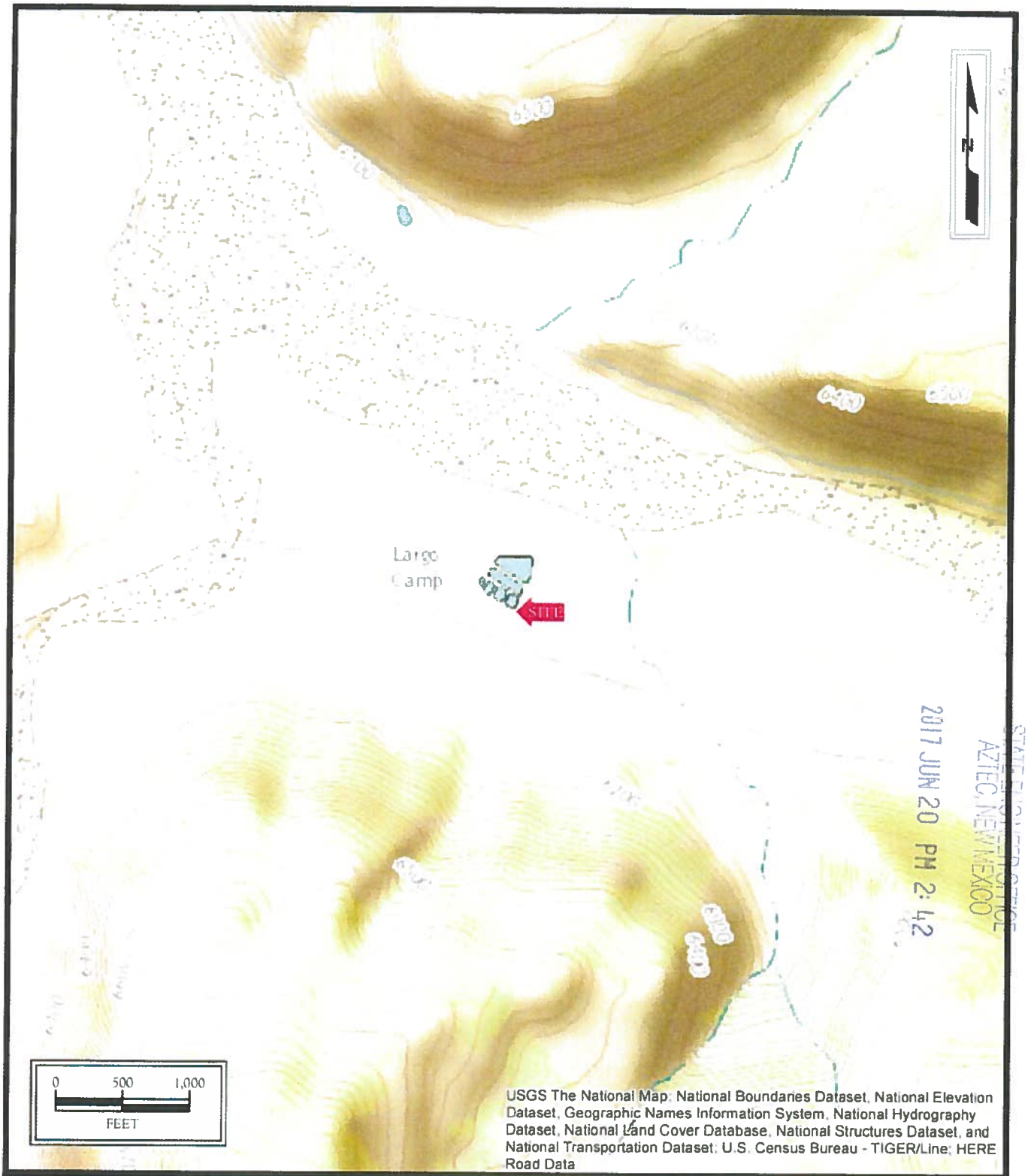
Tom Blaine, PE, State Engineer

By: Kimberly Kirby
Signature Print

Title: Water Resource Spec., Water Rights Division District V
Print

FOR OSE INTERNAL USE — Application for Permit, Form WR-07

File No.: 55-4249 POD1 and POD2 | Trn No.:

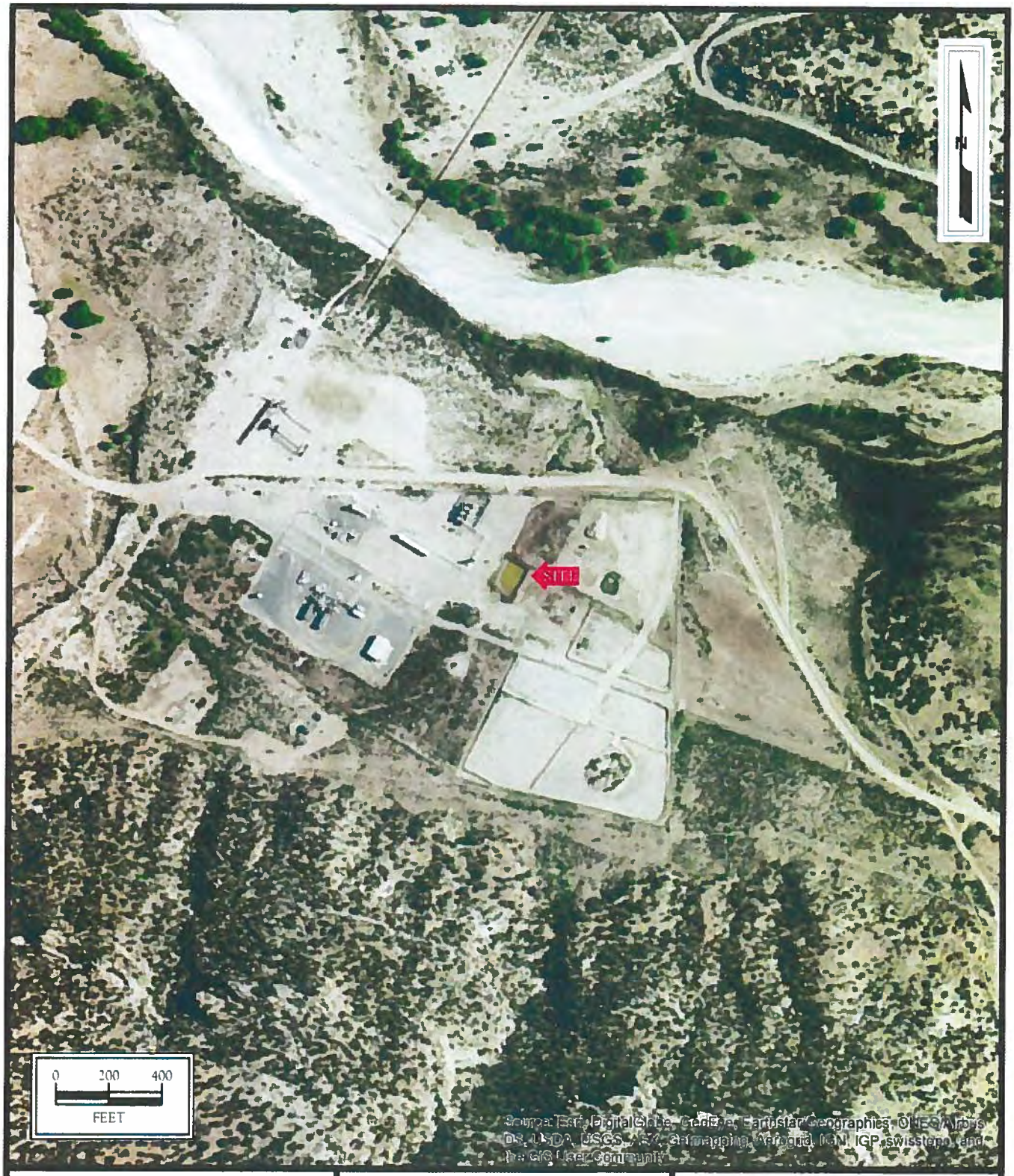


Largo Compressor Station
NE1/4 and SE1/4, S15 T26N R7W
Rio Arriba County, New Mexico
36.4855N, 107.5578W

Project No. 725040112154

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

FIGURE 1
Topographic Map
Smouse Mesa, NM Quadrangle
2013



Largo Compressor Station
NE1/4 and SE1/4, S15 T26N R7W
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36.4855N, 107.5578W

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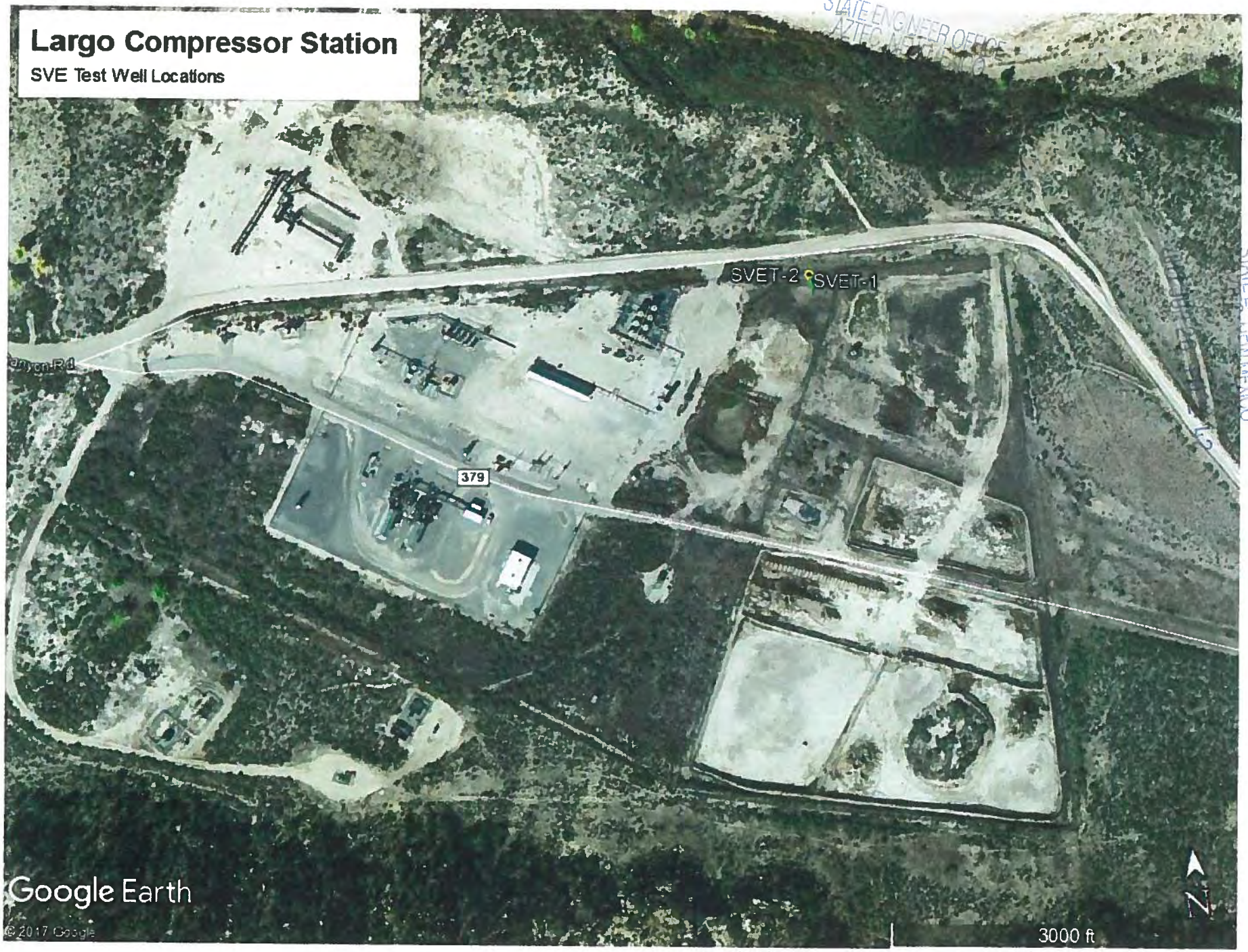
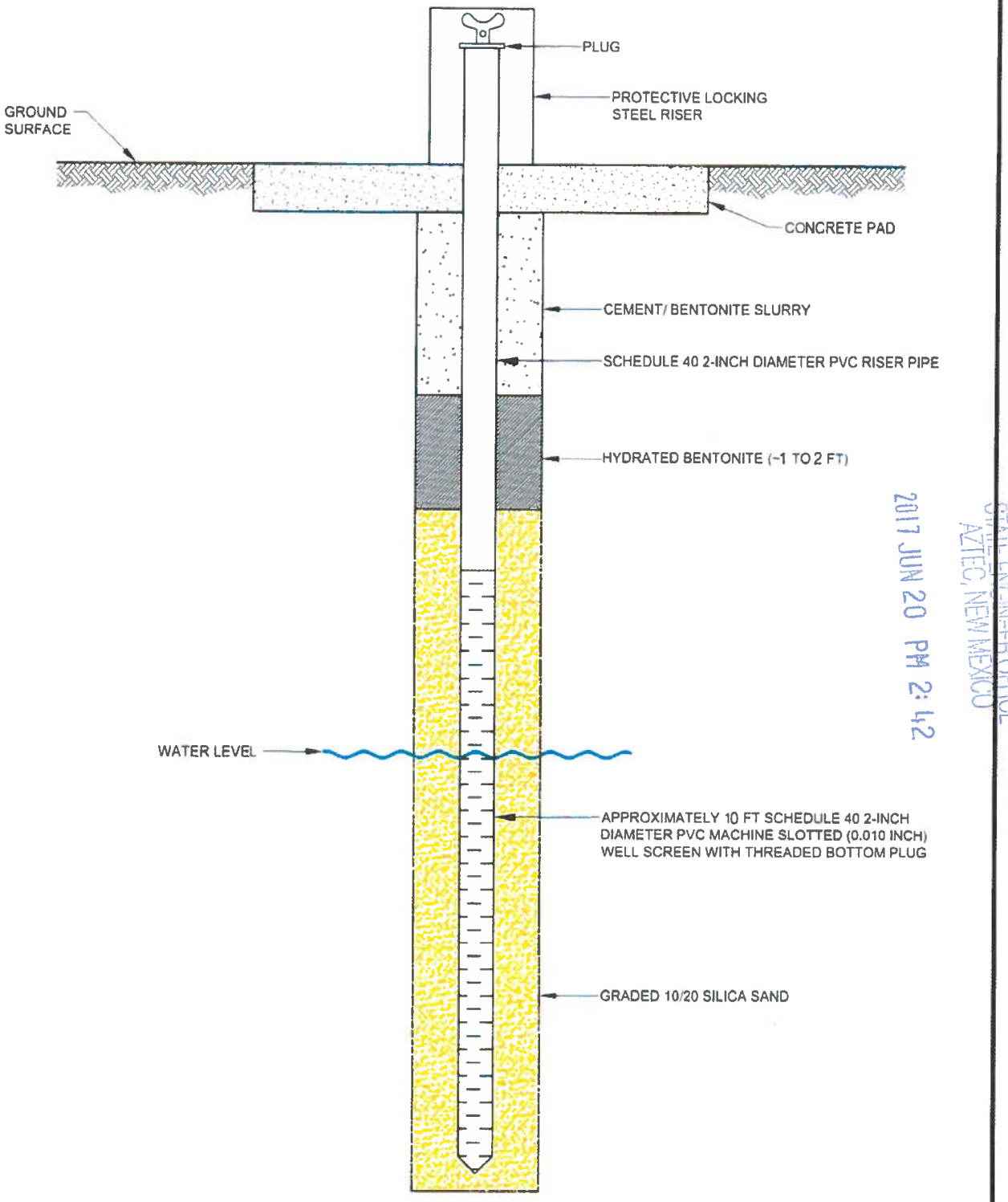
FIGURE 2
Site Vicinity Map





Largo Compressor Station
NE 1/4 and SE 1/4, S15 T26N R7W
Rio Arriba County, New Mexico
36.4855N,107.5578W

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606 South Rio Grande, Suite A
Aztec, NM 87410
Phone: (505) 334-5200
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A Subsidiary of Apex Companies, LLC

SVE TEST WELL SCHEMATIC

Well-diagram.dwg

NMOSE Permit to Drill a Well(s) with No Water Right - Conditions of Approval
SJ-4249 POD1 and POD2

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application approval (i.e., permit) is further subject to the following conditions of approval.

1. This permit is approved as follows:

Permittee(s): Enterprise Products
(Apex TITAN, Inc., as Agent)
614 Reilly Ave.
Farmington, NM 87401

Permit Number: SJ-4249

Application File Date: June 20, 2017

Priority: N/A

Source: Groundwater

Point(s) of Diversion: SJ-4249 POD1 and POD2, two newly installed groundwater remediation/monitoring wells associated with the site investigation at the Largo Compressor Station, on land owned by the applicant, Rio Arriba County, New Mexico. The wells (aka, point of diversion; POD) will be located within the SE¼ of Section 15, Township 26 North, Range 7 West, NMPM, at the following approximate point locations (Lat/Long, WGS84).

POD Name and Owner's Well Identification	Proposed Longitude (decimal degrees)	Proposed Latitude (decimal degrees)
SJ-4249 POD1 (SVET-1)	-107.55522	36.48596
SJ-4249 POD2 (SVET-2)	-107.55524	36.48599

Purpose of Use: Soil vapor extraction testing and groundwater monitoring

Place of Use: N/A

Amount of Water: N/A

2. No water shall be appropriated and beneficially used from any wells or borings approved under this permit.

3. No water shall be diverted from the well(s) except for initial well development and periodic sampling purposes. Upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, unless a permit to use water is acquired from the NMOSE.

4. The well(s) may continue to be used indefinitely for soil vapor extraction remedial activities and groundwater sampling or monitoring required for the current site investigation and any associated

remediation, so long as they remain in good repair. **A new permit shall be obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited. Based on the proposed well construction information provided regarding the subject well(s), the following variances have been provided from 19.27.4.29 and 19.27.4.30 NMAC.

   a. Subsection C of 19.27.4.29 NMAC requires that drilling equipment be disinfected with a chlorine bleach solution. Due to the environmental investigative purpose of these wells, chlorine may bias or degrade contaminates under investigation in the soil and groundwater samples to be collected. Therefore, NMOSE is granting a variance to allow for steam and the use of a suitable cleaning solution for the cleaning of drilling equipment between the drilling of each borehole/well.

   b. Paragraph (2) of Subsection A of 19.27.4.30 NMAC requires that for wells completed less than 20 feet below land surface, the seal be placed from land surface to the bottom of the blank casing. However, due to the need for collection of groundwater samples at particular and discrete intervals, and a screened interval that accounts for fluctuations in the water levels, the seal may be placed above the filter pack which may be extended up to two feet above the top of the screened interval.

6. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

7. The permittee has not indicated whether artesian conditions may be encountered at the proposed well location(s). If artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

8. A Well Record documenting the as-built well construction and materials used shall be filed for each of the new wells in accordance with Subsection K of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 20 days after completion of the well(s)**. Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit.

9. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

10. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities.

    a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

    b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.

    c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

        Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

    d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.

e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

f. **Within 20 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required well plugging record form is available at http://www.ose.state.nm.us/PDF/WellDrillers/WD-11.pdf.

11. In accordance with Subsection C of 19.27.4.30 NMAC, a well/borehole that does not encounter groundwater shall be immediately plugged by filling with drill cutting or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet to the land surface with a neat cement slurry or cement-bentonite sealant as described above. A Plugging Record shall be filed with the State Engineer as described above.

12. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

13. The State Engineer retains jurisdiction of this permit.

The application for non-consumptive use for well(s) SJ-4249 POD1 and POD2, submitted on June 20, 2017, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 28th day of June, A.D. 2017.
Tom Blaine, P.E., State Engineer

By: _____

Kimberly Kirby, Water Resource Specialist
Water Rights Division District V

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
AZTEC

Tom Blaine, P.E.
State Engineer

100 Gossett Drive, Suite A
Aztec, New Mexico 87410

February 5, 2018

Tom Long
Enterprise Products
614 Reilly Ave.
Farmington, NM 87401

RE: Permit Approval to Drill Wells with no Water Right, SJ-4249 POD3–POD15, Enterprise Products, Largo Compressor Station

Dear Mr. Long:

On January 25, 2018, the New Mexico Office of the State Engineer received an application for a permit for the temporary use of thirteen proposed pollution control/recovery wells for groundwater monitoring and pollution recovery activities at the above referenced location. Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval. Also enclosed is a receipt for the fees paid.

Please be aware that no water, other than *de minimis* amounts as needed for well development and/or periodic sampling, can be appropriated from the subject wells approved under this pollution recovery permit (Condition 2 of the Conditions of Approval). As such, there is no requirement for reporting the volume of water extracted and the wells may continue to be used indefinitely for the permitted purposes associated with the current release investigation and remediation as long as they are needed and remain in good condition. A new permit will be required in order to extract water from the wells for any purposes not covered by this permit.

Additionally, a standardized plugging method has also been included in the Conditions of Approval for the future abandonment of the well covered by this permit. This eliminates the need to submit a separate Well Plugging Plan of Operations for approval by the NMOSE prior to plugging, unless an alternate plugging method is proposed, required by a separate oversight agency, necessary due to incompatibility with actual conditions, or artesian conditions are encountered. Well completion and plugging records should be sent to the NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410.

If you have any questions regarding this permitting action, please feel free to contact me at (505) 334-4571.

Sincerely,

Blaine Watson
District V Manager
Water Rights Division – District V Office

Enclosures

cc: Aztec Reading (w/o enclosures)
SJ-4249 File
WATERS
Kyle Summers, Apex TITAN, Inc., via email: ksummers@apexcos.com
Brandon Powell, NMOCD District 3, via email: brandon.powell@state.nm.us

OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION – AZTEC OFFICE

OFFICIAL RECEIPT NUMBER: 5-5984 DATE: 1-25-2018 FILE NO.: SJ-4249 POD 3-52

TOTAL: 250.00 RECEIVED: two hundred, Fifty DOLLARS CHECK NO.: 3644532 CASH: _____

PAYOR: Enterprise Products ADDRESS: PO Box 4735 CITY: Houston STATE: TX

ZIP: 77210 RECEIVED BY: M. Jnett

INSTRUCTIONS: Indicate the number of actions to the left of the appropriate type of filing. Complete the receipt information. **Original** to payor; **pink** copy to Program Support/ASD; **yellow** copy remains in district office, and **goldenrod** copy to accompany application being filed If you make an error, void original and all copies and submit to Program Support/ASD along with other valid receipts.

A. Ground Water Rights Filling Fees

___ 1.	Declaration of Water Right	$ 1.00
___ 2.	Application to Appropriate or Supplement Domestic 72-12-1 Well	$125.00
___ 3.	Application for Stock Well	$ 5.00
___ 4.	Application to Repair or Deepen 72-12-1 Well	$ 75.00
___ 5.	Application for Replacement 72-12-1-1 Well	$ 75.00
___ 6.	Application to Change Purpose of Use 72-12-1 Well	$ 75.00
___ 7.	Application to Appropriate Irrig., Mun., or Comm. Use	$ 25.00
___ 8.	Application for Supplemental Non 72-12-1 Well	$ 25.00
___ 9.	Application to Change Point of Diversion of Non 72-12-1 Well	$ 25.00
___ 10.	Application to Change Place or Purpose of Use Non 72-12-1 Well	$ 25.00
___ 11.	Application to Change Point of Diversion and Place and/or Purpose of Use	$ 50.00
___ 12.	Application for Extension of Time	$ 25.00
___ 13.	Proof of Application to Beneficial Use	$ 25.00
___ 14.	Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water	$ 50.00
___ 15.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water	$ 50.00
50 16.	Application for Test, Expl. Observ. Well	~~$ 5.00~~
___ 17.	Change of Ownership of Water Right	$ 2.00
___ 18.	Application to Repair or Deepen Non 72-12-1 Well	$ 5.00
___ 19.	Application for Replacement Well Non 72-12-1 Well	$ 5.00

B. Surface Water Rights Filing Fees

___ 1.	Declaration of Water Right	$ 10.00
___ 2.	Amended Declaration	$ 25.00
___ 3.	Declaration of Livestock Water Impoundment	$ 10.00
___ 4.	Application for Livestock Water Impoundment	$ 10.00
___ 5.	Application to Appropriate	$ 25.00
___ 6.	Notice of Intent to Appropriate	$ 25.00
___ 7.	Application to Change Point of Diversion	$100.00
___ 8.	Application to Change Place and/or Purpose of Use	$100.00
___ 9.	Application to Change Point of Diversion and Place and/or Purpose of Use	$200.00
___ 10.	Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water	$200.00
___ 11.	Application for Extension of Time	$ 50.00
___ 12.	Supplemental Well to a Surface Right	$100.00
___ 13.	Return Flow Credit	$100.00
___ 14.	Proof of Completion of Works	$ 25.00
___ 15.	Proof of Application of Water to Beneficial Use	$ 25.00
___ 16.	Water Development Plan	$100.00
___ 17.	Change of Ownership of Water Right	$ 5.00

All fees are non-refundable

C. Miscellaneous Fees

___ 1.	Application for Well Driller's License	$ 50.00
___ 2.	Application for Renewal of Well Driller's License	$ 50.00
___ 3.	Application to Amend Well Driller's License	$ 50.00

D. Reproduction of Documents

_____ @ 0.20¢/copy $_____

_____ Maps(s) $_____

E. Certification $_____

F. Other $_____

G. Comments: (POD 3-16)
- 13 new SVE/AS wells
- 37 existing wells (POD 17-52)

located @
Large Compression Station
Rio Arriba County

File No. SJ-4249 POD3-POD15

NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/

Purpose:	☒ Pollution Control And/Or Recovery	☐ Ground Source Heat Pump
☐ Exploratory Well (Pump test)	☐ Construction Site/Public Works Dewatering	☐ Other(Describe):
☒ Monitoring Well	☐ Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

☒ Temporary Request - Requested Start Date: 2/5/2018 Requested End Date: unknown

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

1. APPLICANT(S)

Name: Enterprise Products	Name: Apex Titan, Inc.
Contact or Agent: check here if Agent ☐ Thomas Long	Contact or Agent: check here if Agent ☒ Kyle Summers
Mailing Address: 614 Reilly Ave.	Mailing Address: 606 South Rio Grande, Suite A
City: Farmington	City: Aztec
State: New Mexico Zip Code: 87401	State: New Mexico Zip Code: 87410
Phone: 505-215-4727 ☐ Home ☒ Cell Phone (Work):	Phone: 903-821-5603 ☐ Home ☒ Cell Phone (Work):
E-mail (optional): tjlong@eprod.com	E-mail (optional): ksummers@apexcos.com

STATE ENGINEER OFFICE AZTEC, NEW MEXICO 2018 JAN 25 PM 3:54

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 11/17/16

File No.: SJ-4249 POD3-POD15	Trn. No.:	Receipt No.: 5-5984
Trans Description (optional):		
Sub-Basin:	PCW/LOG Due Date: 1/31/2019	

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

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☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

■ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves , Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
see attached table			

2010 JAN 25 PM 3 54
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ■ Yes ☐ No **If yes, how many** 13

Other description relating well to common landmarks, streets, or other:
See Attached Map

Well is on land owned by: Private

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ■ Yes ☐ No
If yes, how many 13

Approximate depth of well (feet): 22 to 25	Outside diameter of well casing (inches): 2.25 to 4.25
Driller Name: Enviro-Drill Inc.	Driller License Number: WD 1186

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The air sparging (AS) and soil vapor extraction (SVE) wells will be located on private property north of the Largo Compressor Station in Rio Arriba County, NM. The primary objective of the soil investigation is to remediate hydrocarbon affected soils at the Site. Six (6) AS wells will completed as 2 inch diameter wells at 25 feet below grade surface (bgs) and seven (7) SVE wells will be completed as 4 inch diameter wells at 22 feet bgs, utilizing a hollow-stem auger drilling rig.

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☐ Include a description of any proposed pump test, if applicable.	■ Include a plan for pollution control/recovery, that includes the following: ■ A description of the need for the pollution control or recovery operation. ■ The estimated maximum period of time for completion of the operation. ■ The annual diversion amount. ■ The annual consumptive use amount. ■ The maximum amount of water to be diverted and injected for the duration of the operation. ■ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☒ Include the reason for the monitoring well, and, ☒ The duration of the planned monitoring.	■ The method of measurement of water produced and discharged. ■ The source of water to be injected. ■ The method of measurement of water injected. ■ The characteristics of the aquifer. ■ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ■ Proof of any permit required from the New Mexico Environment Department. ■ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Ground Source Heat Pump:** ☐ Include a description of the geothermal heat exchange project, ☐ The number of boreholes for the completed project and required depths. ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Thomas J Long
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2018 JAN 25 PM 3 54

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 1st day of February 20 18, for the State Engineer,

Tom Blaine, P.E., State Engineer

By: Blaine Watson
Signature

Blaine Watson
Print

Title: District V Manager
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07

File No.: SJ-4249 POD3-POD15	Trn No.:

SJ-4249 POD#	Well Number (If Known)	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if Known: - Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR -Hydrographic Survey Map & Tract; OR -Lot, Block & Subdivision; OR -Land Grant Name
3	AS-1	-107.557767	36.487045	NE 1/4, S15 T26N R7W
4	AS-2	-107.557659	36.486976	NE 1/4, S15 T26N R7W
5	AS-3	-107.557553	36.48691	NE 1/4, S15 T26N R7W
6	AS-4	-107.557584	36.486995	NE 1/4, S15 T26N R7W
7	AS-5	-107.557668	36.487076	NE 1/4, S15 T26N R7W
8	AS-6	-107.557762	36.487112	NE 1/4, S15 T26N R7W
9	SVE-1	-107.557712	36.487012	NE 1/4, S15 T26N R7W
10	SVE-2	-107.557608	36.486942	NE 1/4, S15 T26N R7W
11	SVE-3	-107.557502	36.48687	NE 1/4, S15 T26N R7W
12	SVE-4	-107.557533	36.486961	NE 1/4, S15 T26N R7W
13	SVE-5	-107.557615	36.487043	NE 1/4, S15 T26N R7W
14	SVE-6	-107.557706	36.487129	NE 1/4, S15 T26N R7W
15	SVE-7	-107.55782	36.487081	NE 1/4, S15 T26N R7W

OSE File: SJ-4249 POD3-POD15

B: 540 P: 6381 Doc Id: 2017-06381 Sarah
12/12/2017 12:20 PM
Receipt #: 39807 Page 5 of 5
Linda J. Portillo County Clerk & Recorder Rio Arriba New Mexico

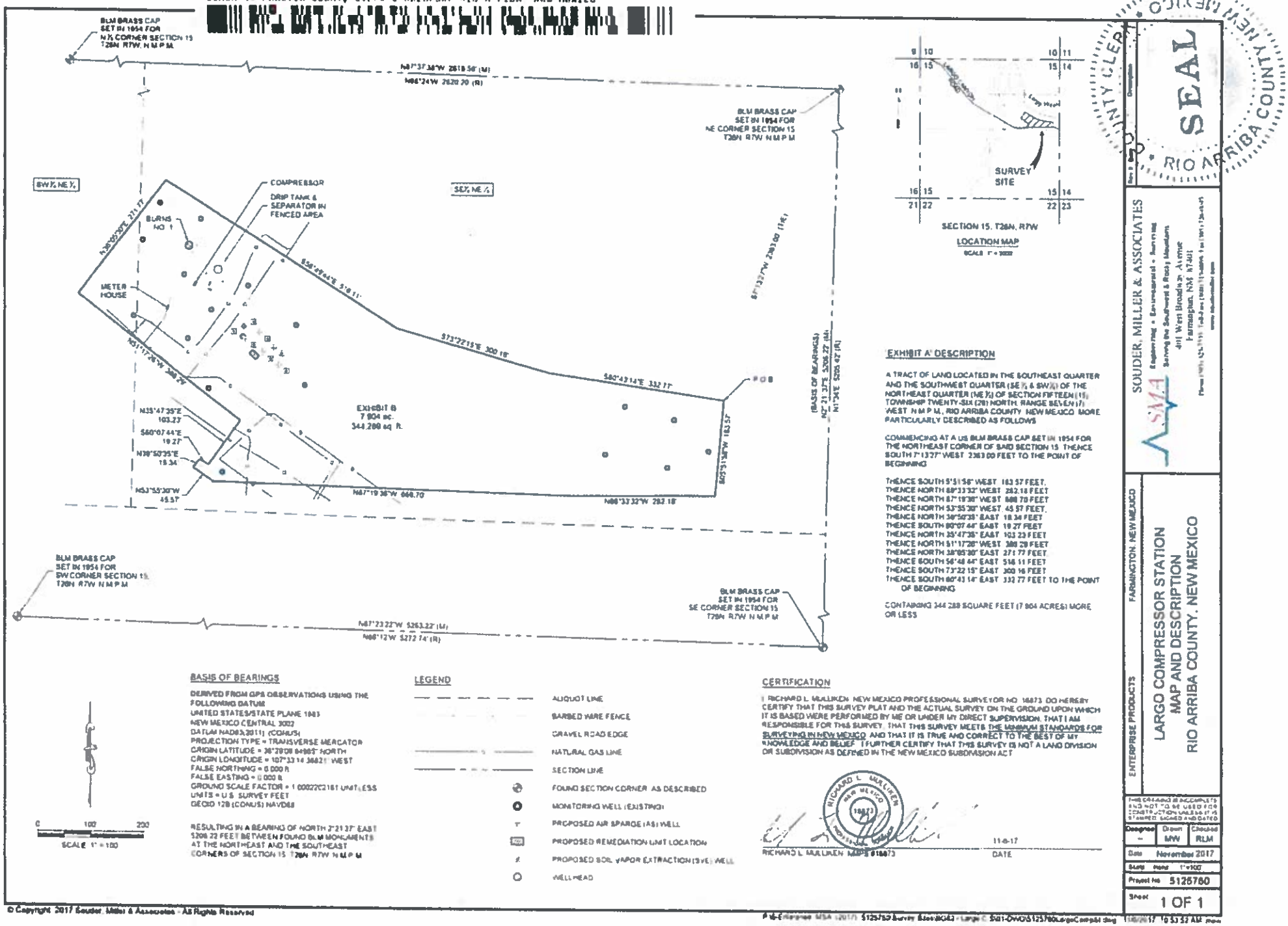


EXHIBIT A' DESCRIPTION

A TRACT OF LAND LOCATED IN THE SOUTHEAST QUARTER AND THE SOUTHWEST QUARTER (SE¼ & SW¼) OF THE NORTHEAST QUARTER (NE¼) OF SECTION FIFTEEN (15), TOWNSHIP TWENTY-SIX (26) NORTH, RANGE SEVEN (7) WEST, N.M.P.M., RIO ARRIBA COUNTY, NEW MEXICO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A U.S. BLM BRASS CAP SET IN 1954 FOR THE NORTHEAST CORNER OF SAID SECTION 15; THENCE SOUTH 7°13'27" WEST 2363.00 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 5°51'58" WEST 183.57 FEET,
THENCE NORTH 88°33'32" WEST 282.18 FEET,
THENCE NORTH 87°19'38" WEST 668.70 FEET,
THENCE NORTH 53°55'30" WEST, 45.57 FEET,
THENCE NORTH 36°50'35" EAST 18.34 FEET,
THENCE SOUTH 80°07'44" EAST 19.27 FEET,
THENCE NORTH 35°47'35" EAST 103.23 FEET,
THENCE NORTH 51°13'28" WEST 388.29 FEET,
THENCE NORTH 39°05'39" EAST 271.77 FEET,
THENCE SOUTH 56°48'44" EAST 518.11 FEET,
THENCE SOUTH 73°22'15" EAST 300.16 FEET,
THENCE SOUTH 80°43'14" EAST 332.77 FEET TO THE POINT OF BEGINNING.

CONTAINING 344,288 SQUARE FEET (7.904 ACRES) MORE OR LESS.

BASIS OF BEARINGS

DERIVED FROM GPS OBSERVATIONS USING THE FOLLOWING DATUM:
UNITED STATES/STATE PLANE 1983
NEW MEXICO CENTRAL 3002
DATUM NAD83(2011) (CONUS)
PROJECTION TYPE = TRANSVERSE MERCATOR
ORIGIN LATITUDE = 34°29'08.84985" NORTH
ORIGIN LONGITUDE = 107°33'14.36821" WEST
FALSE NORTHING = 0.000 ft
FALSE EASTING = 0.000 ft
GROUND SCALE FACTOR = 1.000272161 UNITLESS
UNITS = U.S. SURVEY FEET
GEOID 12B (CONUS) NAVD88

RESULTING IN A BEARING OF NORTH 2°21'37" EAST 5208.22 FEET BETWEEN FOUND BLM MONUMENTS AT THE NORTHEAST AND THE SOUTHEAST CORNERS OF SECTION 15, T26N, R7W, N.M.P.M.

LEGEND

- ALIQUOT LINE
- BARBED WIRE FENCE
- GRAVEL ROAD EDGE
- NATURAL GAS LINE
- SECTION LINE
- FOUND SECTION CORNER AS DESCRIBED
- MONITORING WELL (EXISTING)
- PROPOSED AIR SPARGE (AS) WELL
- PROPOSED REMEDIATION UNIT LOCATION
- PROPOSED SOIL VAPOR EXTRACTION (SVE) WELL
- WELL HEAD

CERTIFICATION

I, RICHARD L. MULLIKEN, NEW MEXICO PROFESSIONAL SURVEYOR NO. 16873, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT.

RICHARD L. MULLIKEN, NMPS 16873 — DATE: 11-6-17

RIO ARRIBA COUNTY CLERK SEAL — RIO ARRIBA COUNTY, NEW MEXICO

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Surveying
Serving the Southwest & Rocky Mountains
401 West Broadway Avenue
Farmington, NM 87401
(505) 325-7535 Fax (505) 325-7556

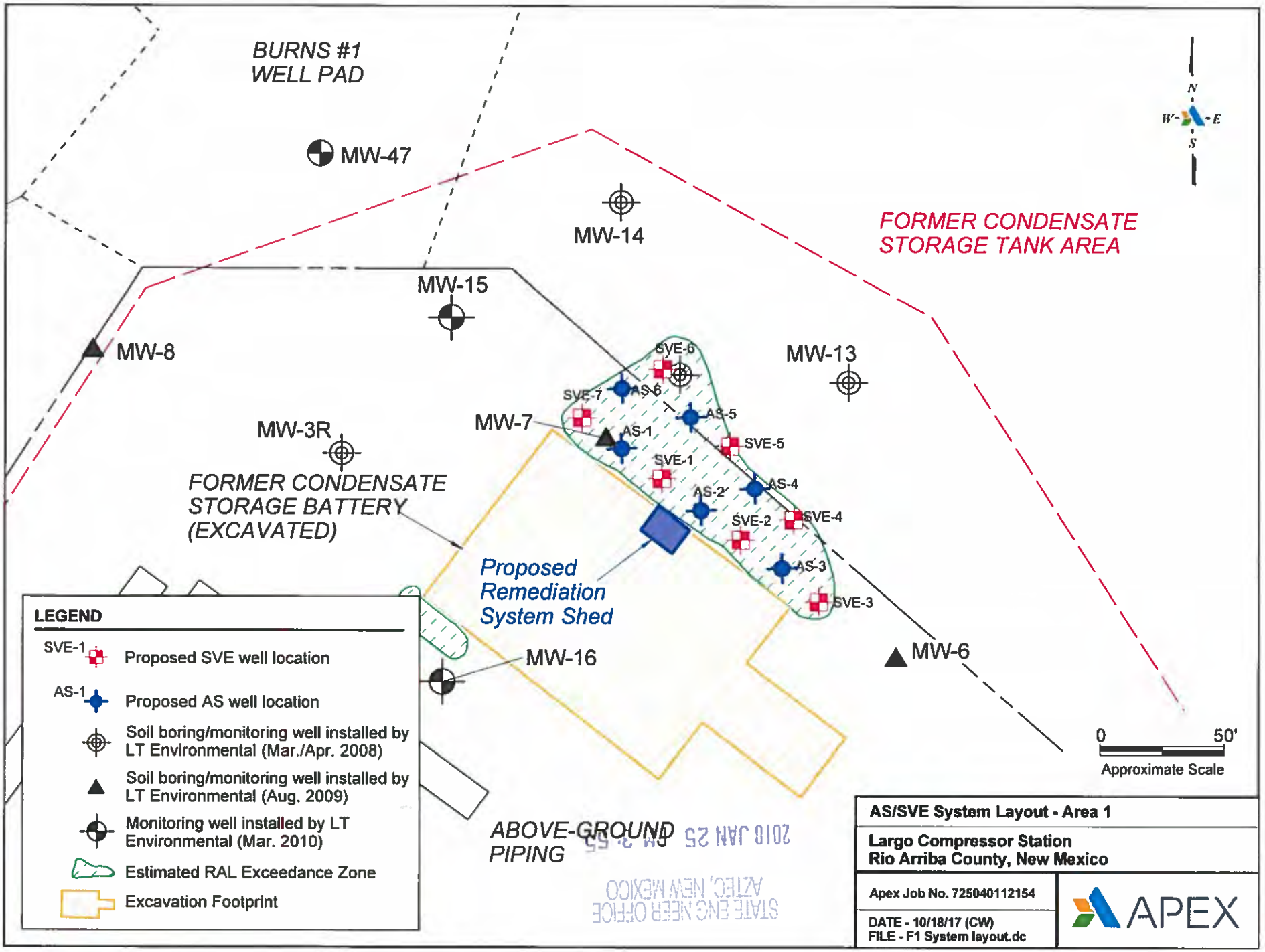
ENTERPRISE PRODUCTS — FARMINGTON, NEW MEXICO

LARGO COMPRESSOR STATION
MAP AND DESCRIPTION
RIO ARRIBA COUNTY, NEW MEXICO

Designed	Drawn	Checked
-	MW	RLM

Date: November 2017
Scale: none 1"=100'
Project No. 5126780
Sheet 1 OF 1

OSE File: SJ-4249 POD3-POD15



OSE File: SJ-4249 POD3-POD15

NMOSE Permit for a Well(s) With No Water Right and Temporary Use for Pollution Control/Recovery Conditions of Approval SJ-4249 POD3-POD15

Upon review of the proposed pollution recovery plan, the New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be permanently impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application is further subject to the following conditions of approval.

1. This application is approved as follows:

Permittee(s): Enterprise Products
via Kyle Summers, Apex-Titan, Inc., as Agent
614 Reilly Avenue
Farmington, NM 87401

Permit Number: SJ-4249

Application File Date: January 25, 2018

Priority: N/A

Source: Groundwater

Point(s) of Diversion: SJ-4249 POD3-POD15, consisting of six proposed air sparging wells and seven soil vapor extraction wells, are proposed for temporary uses for groundwater monitoring and pollution control/recovery. The well(s) (aka, point of diversion; POD) are located on land owned by the John Oliver Berry and Patricia Joan Berry Revocable Trust in Rio Arriba County, New Mexico, within the SE/4 NE/4 of Section 15, Township 26 North, Range 7 West, NMPM, associated with the Enterprise Products Largo Compressor Station release site investigation, at the following approximate point locations (Lat/Long, WGS84)

POD Number and Owner's Well Name	Casing - Inside Diameter (inches)	Latitude (Decimal Degrees, N)	Longitude (Decimal Degrees, W)
SJ-4249 POD3 (AS-1)	2	36.487045	107.557767
SJ-4249 POD4 (AS-2)	2	36.486976	107.557659
SJ-4249 POD5 (AS-3)	2	36.48691	107.557553
SJ-4249 POD6 (AS-4)	2	36.486995	107.557584
SJ-4249 POD7 (AS-5)	2	36.487076	107.557668
SJ-4249 POD8 (AS-6)	2	36.487112	107.557762
SJ-4249 POD9 (SVE-1)	4	36.487012	107.557712
SJ-4249 POD10 (SVE-2)	4	36.486942	107.557608
SJ-4249 POD11 (SVE-3)	4	36.48687	107.557502
SJ-4249 POD12 (SVE-4)	4	36.486961	107.507533
SJ-4249 POD13 (SVE-5)	4	36.487043	107.557615
SJ-4249 POD14 (SVE-6)	4	36.487129	107.557706
SJ-4249 POD15 (SVE-7)	4	36.487081	107.55782

Purpose of Use:	Groundwater monitoring and pollution control/recovery via Air Sparging/Soil Vapor Extraction
Place of Use:	N/A
Amount of Water:	None

2. Only *de minimis* amounts of water generated as a result of well development activities and periodic sampling or gauging activities are permitted to be removed from the approved PODs. The application states that contaminants will be removed from the well using a combined air sparging and soil vapor extraction system that is not designed to recover groundwater.

3. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring purposes, as required for the current site investigation and any associated remediation, so long as they are required for such activities and remain in good repair. **A new application shall be submitted and a permit obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.**

4. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.

5. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 2⅜ inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.

6. The permittee has not indicated whether artesian conditions may be encountered at the proposed well location(s). If artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.

7. A Well Record documenting the as-built well construction and materials used shall be filed for each of the new wells in accordance with Subsection N of 19.27.4.29 NMAC. **Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 30 days after completion of the well(s).** Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit. The well record form is available at http://www.ose.state.nm.us/STST/wdForms.php.

8. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and

NMOSE approval obtained *prior* to the initiation of *any* well plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities.

a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.

c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

   Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.

e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

f. **Within 30 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer** in accordance with Paragraph (3) of

Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The well plugging record form is available at http://www.ose.state.nm.us/STST/wdForms.php.

9. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.

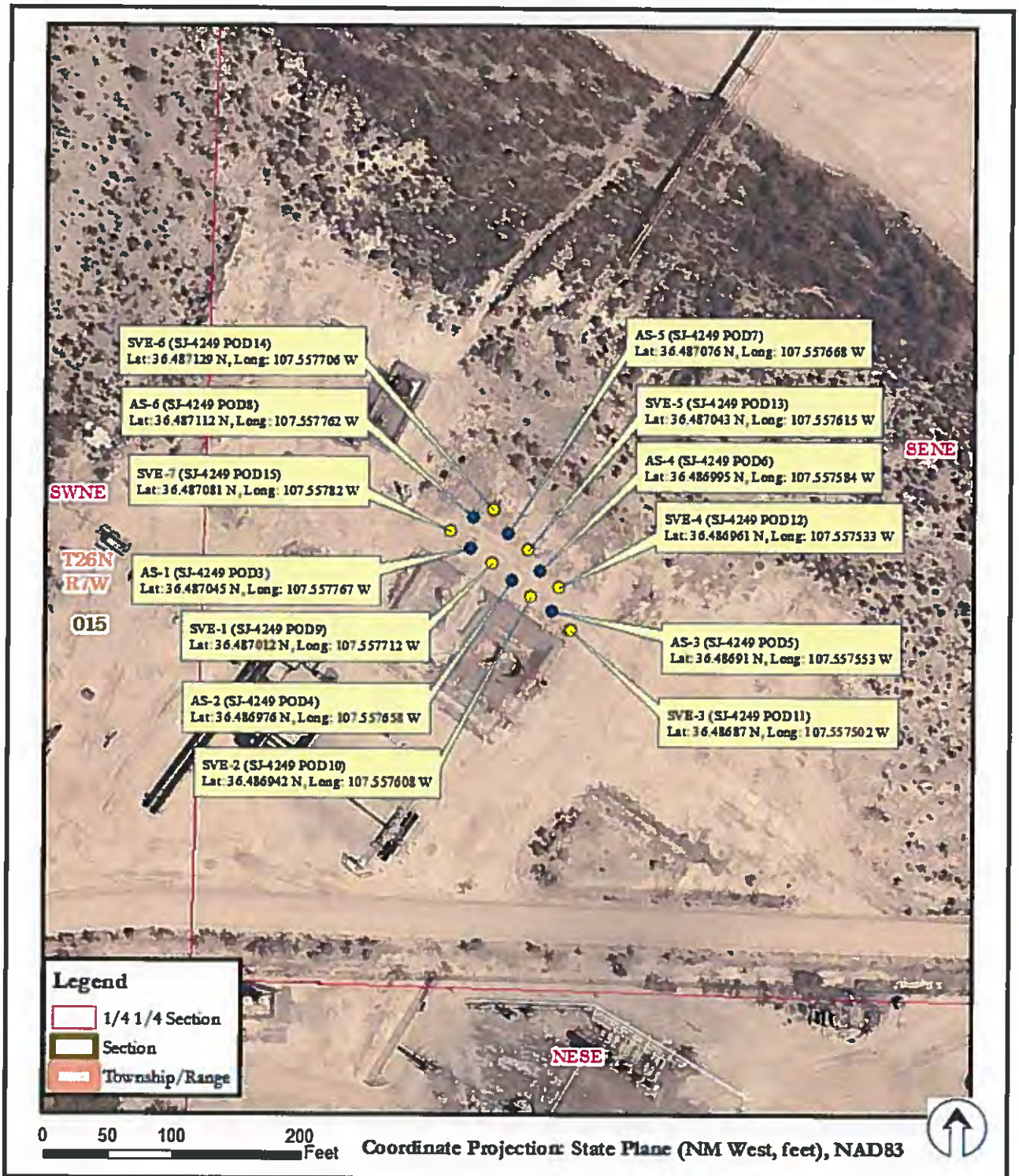
10. The State Engineer retains jurisdiction of this permit.

The application for the temporary use of non-consumptive use well(s) SJ-4249 POD3-POD16 for groundwater monitoring and pollution control/recovery purposes, submitted January 25, 2018, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 1st day of February, A.D. 2018.
Tom Blaine, P.E., State Engineer

By: Blaine Watson

Blaine Watson, Manager
District V Office, Water Rights Division



Map Description: Enterprise Products Largo Compressor Stn. Investigation and Remediation; AS/SVE Wells
Data sources: Application materials
File number: SJ-4249
Aerial Photography: 2013

STATE OF NEW MEXICO
Office of the State Engineer
Tom Blaine, P.E.
State Engineer

District V Office, Aztec
Well Location Map

ENSOLUM

APPENDIX E

Tables

ENSOLUM

TABLE 1

Largo Compressor Station - Area 2 (Former Valve Box Area)[1]

SOIL ANALYTICAL SUMMARY

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)	TPH MRO (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[2]			10	NE	NE	NE	50	100			600
Recent Soil Boring Locations Advanced by Apex TITAN, Inc. (2017)											
SB-103	6.7.17	7 to 8	<0.024	<0.048	<0.048	<0.095	ND	<4.8	10	<50	<30
		11 to 12	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.5	<47	58

Notes:

[1] = Historical data is not included in this report. Additional data can be found in the *Environmental Site Investigation - Largo Compressor Station (GW-211)* , Southwest Geoscience, March 24, 2011.

[2] = The closure criteria listed herein are those approved by the New Mexico EMNRD OCD in 2017 for specific historic releases and the associated remediation activities described in the *Soil Remediation Plan,* Apex, May 11, 2017.

mg/kg = milligrams per kilogram

NA = Not Analyzed

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits or Practical Quantitation Limits

BTEX = Benzene, Toluene, Ethylbenzne, and Total Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

ENSOLUM

TABLE 2
Largo Compressor Station - Area 3 (Retention Pond Area)[1]
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[3] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria [2]			10	NE	NE	NE	50	100			600
Monitoring Well Locations and Recent Soil Boring Locations Removed by Excavation											
MW-33	11.16.10	7 to 8	7.2	82	17	170	**280**	**3,300**	**160**	NA	NA
MW-35	11.17.10	9 to 10	**11**	130	32	300	**470**	**7,900**	**440**	NA	NA
MW-36	11.17.10	12 to 13	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA	NA
MW-37	11.17.10	11 to 12	<0.05	14	9.5	89	**110**	**2,000**	**290**	NA	NA
SB-92	6.12.17[A]	8 to 9	4.7	38	22	210	**280**	**4,700**	**810**	**980**	72
	6.6.17	12 to 15	**14**	180	41	360	**600**	**11,000**	**670**	**130**	48
		19 to 20	<0.023	<0.047	<0.047	<0.094	ND	4.7	<9.9	<49	<30
SB-93	6.13.17[A]	9 to 10	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<10	<50	110
	6.6.17	13 to 15	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	<49	<30
		18 to 20	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.2	<46	<30
SB-94	6.7.17	9 to 10	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.6	<48	400
		18 to 19	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<10	<50	<30
		19 to 20	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.3	<46	<30
SB-96	6.5.17	6 to 7	8.1	77	15	360	**460**	**11,000**	**710**	**280**	68
	6.8.17	12 to 13	5.4	2.5	16	42	**66**	**3,900**	**140**	**330**	60
		19 to 20	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.9	<49	<30
SB-98	6.5.17	16 to 18	0.35	<0.48	0.55	8.1	9.0	**230**	**25**	**<47**	<30
		19 to 20	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.7	<49	<30
SB-102	6.7.17	8 to 9	0.47	5.7	1.5	15	23	**570**	**27**	**<48**	65
		12 to 13	<0.024	0.18	0.094	0.80	1.1	39	<10	<50	<30
SB-104	6.13.17[A]	8 to 9	<0.024	<0.048	<0.048	<0.096	ND	**<4.8**	**24**	**470**	33
	6.6.17	16 to 17	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.3	<46	<30
		19 to 20	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.3	<47	<30
SB-105	6.12.17[A]	11 to 12	<0.024	<0.048	<0.048	<0.096	ND	<4.8	57	<50	<30
	6.6.17	13 to 15	<0.023	0.062	<0.047	0.33	0.39	8.1	<10	<50	<30
		19 to 20	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.2	<46	<30
SB-106	6.12.17[A]	6 to 7	<0.46	<0.92	7.5	62	**70**	**1,700**	**260**	**240**	100
		11 to 12	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.8	<49	36
	6.6.17	15 to 17	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.9	<49	<30
		19 to 20	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<10	<50	<30
SB-107	6.13.17	7 to 8	**11**	140	50	460	**660**	**9,800**	**760**	**190**	88
		11 to 12	0.30	1.4	1.0	7.5	10	**260**	**12**	**<48**	31

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TABLE 2

Largo Compressor Station - Area 3 (Retention Pond Area)[1]

SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[3] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria [2]			10	NE	NE	NE	50	100			600
SVET-1	6.5.17	6 to 7	6.8	200	51	590	**850**	**14,000**	**1,000**	**460**	57
	6.7.17	12 to 12.5	0.89	4.5	3.2	27	36	**800**	**45**	**<49**	<40
		13.5 to 14	0.17	<0.049	0.62	0.55	1.3	43	<9.4	<47	<30
SVET-2	6.5.17	7 to 8	7.4	83	18	190	**300**	**6,100**	**450**	**120**	49
	6.7.17	12 to13.5	1.8	14	4.4	40	**60**	**800**	**12**	**<46**	<30
		19 to 20	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.4	<47	<30
SB-112	7.02.18	5 to 6	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.9	<49	NA
		7 to 8	<0.024	0.69	15	82	**98**	**4,100**	**270**	**150**	NA
		8 to 9	<0.024	0.067	1.1	4.5	5.7	**330**	**60**	**68**	NA
		9 to 10	<0.023	<0.046	0.050	0.15	0.20	13	<9.9	<50	NA
SB-116	9.04.18	6 to 10	1.3	23	7.2	72	**100**	**3,300**	**56**	**<48**	98
		14 to 16	<0.024	0.048	<0.048	0.12	0.17	8.6	<9.7	<48	<30
SB-117	9.04.18	6 to 8	2.5	1.4	17	160	**180**	**5,000**	**190**	**67**	100
		14 to 16	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<49	<30
SB-118	9.04.18	8 to 10.5	1.3	<0.50	4.2	39	45	**1,500**	**20**	**<50**	59
		14 to 16	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.9	<50	<30
SB-119	9.04.18	8 to 10	0.20	1.5	0.77	9.9	12	**280**	**<9.7**	**<48**	83
		14 to 16	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.9	<49	<30
SB-120	9.04.18	8 to 9	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.9	<49	89
		14 to 16	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.8	<49	<30
Recent Soil Boring Locations Advanced by Apex TITAN, Inc. (2017-2018)											
SB-91	6.12.17[A]	11.5 to 12	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.9	<49	<30
	6.6.17	19 to 20	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.7	<49	<30
SB-95	6.7.17	10 to 11	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.7	<48	100
	6.7.17	18 to 19	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.5	<47	<30
		19 to 20	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<10	<50	<30
SB-97	6.6.17[A]	11 to 12	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.7	<49	<30
	6.5.17	14 to 16	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	<50	<30
		19 to 20	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.7	<48	<30
SB-99	6.13.17[A]	6 to 7	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.4	<47	<30
	6.7.17	17 to 18	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.5	<48	<30
		19 to 20	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.4	<47	<30
SB-100	6.13.17[A]	7 to 8	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<10	<50	170
	6.7.17	18 to 19	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.7	<48	<30
		19 to 20	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<10	<50	<30

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TABLE 2
Largo Compressor Station - Area 3 (Retention Pond Area)[1]
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[3] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria [2]			10	NE	NE	NE	50	100			600
SB-101	6.7.17	9 to 10	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<10	<50	38
		11 to 12	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.5	<47	<30
SB-109	7.02.18	9	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.9	<50	NA
SB-110	7.02.18	9 to 10	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.8	<49	NA
		10 to 11	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<49	NA
SB-111	7.02.18	12.5	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.9	<49	NA
SB-113	7.02.18	3 to 4	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<10	<50	NA
		9 to 10	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.8	<49	NA
SB-114	9.04.18	8 to 10	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<10	<50	<30
		10 to 12	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.8	<49	<30
SB-115	9.04.18	8 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.8	<49	220
		11 to 12	<0.025	<0.049	<0.049	<0.099	ND	<4.9	<9.6	<48	39
SB-121	9.04.18	12 to 14	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	<49	<30
		14 to 16	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.8	<49	<30

Notes:

Concentrations in **bold** and yellow exceed the applicable NM EMNRD OCD Closure Criteria

[1] = Due to the volume of data not all historical data is included in this report. Additional data can be found in the *Soil Remediation Plan* , Apex, May 11, 2017.

[2] = The closure criteria listed herein are those approved by the New Mexico EMNRD OCD in 2017 for specific historic releases and the associated remediation activities described in the *Soil Remediation Plan* , Apex, May 11, 2017.

[3] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

[A] = These locations were resampled at a later date to obtain additional shallow samples by advancing a duplicate boring adjacent to the original boring.

mg/kg = milligrams per kilogram

NA = Not Analyzed

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits or Practical Quantitation Limits

BTEX = Benzene, Toluene, Ethylbenzne, and Total Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

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TABLE 3
Largo Compressor Station - Area 3 (Retention Pond Area)
IRON CONTENT AND PHYSICAL PROPERTIES SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Moisture (wt %)	Iron (mg/kg)	pH
Recent Soil Boring Locations Advanced by Apex TITAN, Inc. (2017)					
SB-96[A]	6.5.17	6 to 7	13	7,900	8.44
		12 to 13	24	15,000	9.25
SB-102[A]	6.7.17	8 to 9	26	22,000	8.18
SVET-1[A]	6.5.17	6 to 7	22	14,000	8.02
		12 to 12.5	25	21,000	8.20

Notes:

[A] = The soil boring location was removed during the 2017-2019 excavation activities.

mg/kg = milligrams per kilogram

wt % = by weight percent

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TABLE 4
Largo Compressor Station - Area 3 (Retention Pond Area)
GEOTECHNICAL SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Physical Properties						Organic Carbon	
			Permeability (cm^2)	Hydraulic Conductivity (cm/s)	Total Porosity (cm^3/cm^3)	Air-Porosity (cm^3/cm^3)	Volumertric Mositure (cm^3/cm^3)	Dry Bulk Density (g/cc)	Total Organic Carbon (mg/kg)	Fractional Organic Carbon (g/g)
Recent Soil Boring Locations Advanced by Apex TITAN, Inc. (2017)										
SB-97[A]	6.19.17	11.9	1.49E-13	1.50E-08	0.468	0.178	0.290	1.42	NA	NA
		11.5 to 11.8	NA	NA	NA	NA	NA	NA	840	8.40E-04
SB-107[A]	6.19.17	7.6	1.05E-11	1.03E-06	0.473	0.217	0.256	1.40	NA	NA
		7.7 to 8.0	NA	NA	NA	NA	NA	NA	4,750	4.75E-03

Notes:

[A] = The soil boring was removed during the 2017-2019 excavation activities.

NA = Not Analyzed

cm^2 = square centimeter

cm/s = centimeter per second

cm^3 = cubic centimeter

g/cc = gram per cubic centimeter

mg/kg = milligram per kilogram

g/g = gram per gram

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TABLE 5
Largo Compressor Station
INORGANIC GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	BOD (mg/L)	COD (mg/L)	Nitrate[1] (mg/L)	Nitrite[1] (mg/L)	Sulfate[1] (mg/L)	Chloride[1] (mg/L)
New Mexico Water Quality Control Commission Human Health and Domestic Water Supply Standards		NE	NE	10	NE	600	250
Monitoring Wells Installed by Lodestar/LTE and Southwest Geoscience (2017)							
MW-7	07.13.17	14	190	<0.50	<0.50	**10,000**	200
MW-37[2]	07.13.17	450	292	NS	NS	NS	NS
MW-37[2]	07.14.17	NS	NS	<1.0	<1.0	**3,600**	53

Notes:

Concentrations in **bold** and yellow exceed a WQCC Standard

mg/L = milligram per liter

NS = Not Sampled

NE = Not Established

[1] = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this document reflects the previous GQSs.

[2] = The monitoring well was removed during the 2017-2019 excavation activities.

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TABLE 6
Largo Compressor Station - Area 3 (Retention Pond Area)
PHASE 1 & 2 EXCAVATION SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH GRO/DRO/MRO[2] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	NE	NE	NE	100	600
Stockpiled Soil Sample Transported to Envirotech (2017)												
P1-SP2	8.25.17	Stockpile	<0.088	0.23	<0.18	5.9	6.1	190	31	120	**340**	NA[3]
Soil Samples Removed by Excavation (2017-2019)												
P1-4	8.25.17	0 to 16	<0.018	<0.035	<0.035	<0.071	ND	<3.5	<9.7	<48	ND	NA[3]
P1-T1	8.28.17	0 to 12	**17**	150	42	410	**320**	10,000	800	390	**11,000**	NA[3]
P1-T3	8.28.17	0 to 20	**12**	4.8	19	520	**560**	8,600	960	390	**10,000**	NA[3]
P1-T4	8.28.17	0 to 20	1.7	7.1	4.4	60	**73**	1,800	290	140	**2,200**	NA[3]
P1-T5	8.28.17	0 to 17	0.29	3.3	3.0	29	36	630	200	210	**1,000**	NA[3]
P1-T6	8.28.17	0 to 17	1.3	30	15	140	**190**	3,100	350	240	**3,700**	NA[3]
P1-T7	8.28.17	0 to 20	8.0	30	26	210	**270**	6,900	410	240	**7,600**	NA[3]
P1-T8	8.28.17	0 to 20	6.4	3.8	20	140	**170**	4,300	400	220	**4,900**	NA[3]
P1-T9	9.1.17	0 to 17	1.1	8.0	12	140	**160**	3,300	300	190	**3,800**	NA[3]
P1-T10	9.1.17	0 to 17	0.44	3.1	3.0	28	35	760	38	<46	**800**	NA[3]
P1-T11	9.1.17	0 to 17	8.6	99	31	310	**450**	5,200	150	81	**5,400**	NA[3]
P1-T12	9.1.17	0 to 17	<0.087	0.43	13	89	**100**	2,500	48	62	**2,600**	NA[3]
P1-T13	9.14.17	0 to 16	**14**	59	24	190	**290**	5,200	460	370	**6,000**	NA[3]
P1-T14	9.14.17	0 to 16	2.5	16	<0.82	140	**160**	4,100	170	150	**4,400**	NA[3]
P1-T15	9.14.17	0 to 16	**23**	190	41	390	**640**	8,900	390	390	**9,700**	NA[3]
P1-T16	9.14.17	0 to 16	**20**	220	39	390	**670**	5,100	420	350	**5,900**	NA[3]
P1-T17	9.19.17	0 to 14	3.2	18	6.8	100	**130**	2,700	200	130	**3,000**	NA[3]
P1-T18	9.19.17	0 to 16	5.6	80	23	250	**360**	7,200	480	310	**8,000**	NA[3]
P1-T19	10.26.17	0 to 18	2.3	32	13	130	**180**	3,400	310	110	**3,800**	NA[3]
P2-T22	10.26.17	0 to 17	<1.1	13	8.5	120	**140**	3,600	280	150	**4,000**	NA[3]
P2-T23	10.26.17	0 to17	<1.5	9.8	4.0	34	48	1,200	14	<49	**1,200**	NA[3]
P2-T24	10.26.17	0 to 17	**20**	230	42	420	**710**	11,000	240	120	**11,000**	NA[3]
P2-T25	10.26.17	0 to 16	9.2	55	30	260	**350**	6,100	370	380	**6,900**	NA[3]
P2-T26	10.26.17	0 to 16	**17**	120	56	520	**710**	11,000	590	640	**12,000**	NA[3]
P2-T29	10.26.17	0 to 10	<0.10	<0.20	1.9	11	13	710	18	<45	**730**	NA[3]
P2-T30	11.20.17	0 to 17	8.1	65	30	240	**340**	9,500	350	160	**10,000**	NA[3]
P2-T31	11.20.17	6 to 17	**17**	82	44	380	**520**	13,000	390	250	**14,000**	NA[3]
P2-T32	11.20.17	6 to 17	0.13	1.1	0.47	4.8	6.5	170	<9.6	<48	**170**	NA[3]
P2-T33	11.20.17	2 to 17	2.0	25	19	200	**250**	5,200	120	87	**5,400**	NA[3]
P2-T34	11.20.17	2 to 17	3.7	28	23	240	**300**	6,900	1500	3100	**12,000**	NA[3]
P2-T35	11.20.17	2 to 17	3.7	66	29	350	**450**	7,900	770	1200	**9,900**	NA[3]

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TABLE 6
Largo Compressor Station - Area 3 (Retention Pond Area)
PHASE 1 & 2 EXCAVATION SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH GRO/DRO/MRO[2] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	NE	NE	NE	100	600
P2-T36	11.20.17	2 to 17	<0.020	<0.041	<0.041	0.87	0.87	120	190	150	**460**	NA[3]
P2-T37	11.20.17	2 to 16	9.1	120	41	350	**520**	10,000	400	160	**11,000**	NA[3]
P2-T38	12.12.17	6 to 17	7.9	20	29	270	**330**	11,000	180	170	**11,000**	NA[3]
P2-T39	12.12.17	6 to 16	**17**	180	54	490	**740**	18,000	550	290	**19,000**	NA[3]
P2-T40	12.12.17	6 to 17	6.8	120	29	270	**430**	13,000	190	210	**13,000**	NA[3]
P2-T41	12.12.17	2 to 17	0.45	3.0	9.6	98	**110**	4,500	100	110	**4,700**	NA[3]
P2-T42	12.12.17	2 to 17	3.4	19	13	100	**140**	8,400	90	90	**8,600**	NA[3]
P2-T43	12.12.17	2 to 17	1.6	13	2.5	19	36	1,700	28	57	**1,800**	NA[3]
P2-T44	12.12.17	2 to 17	2.5	38	12	100	**150**	6,000	460	220	**6,700**	NA[3]
P2-T45	12.12.17	2 to 17	<0.35	<0.35	0.38	1.9	2.3	480	70	<49	**550**	NA[3]
P2-T46	12.13.17	2 to 17	1.7	13	12	130	**160**	7,800	380	180	**8,400**	NA[3]
P2-T47	12.13.17	2 to 17	0.31	2.7	1.5	11	16	640	120	57	**820**	NA[3]
P2-T48	12.13.17	2 to 17	2.0	13	8.8	81	**110**	4,000	310	130	**4,400**	NA[3]
P2-T49	12.13.17	2 to 17	0.060	0.12	0.18	2.9	3.3	180	<9.6	<48	**180**	NA[3]
P2-T50	12.13.17	2 to 17	0.44	1.8	0.79	5.1	8.1	290	7,500	620	**8,400**	NA[3]
P2-T60	2.2.18	6 to 16	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<9.5	<48	ND	NA[3]
P2-T61	2.6.18	0 to 16	<0.024	<0.047	<0.047	0.10	0.10	59	2,000	220	**2,300**	NA[3]
P2-T62	2.6.18	0 to 16	0.86	16	4.1	44	**65**	2,600	130	100	**2,800**	NA[3]
P2-T63	2.6.18	0 to 16	0.56	10	6.3	39	**56**	4,900	270	160	**5,300**	NA[3]
P2-T64	2.6.18	0 to 16	<0.22	3.0	1.9	19	24	1,400	50	63	**1,500**	NA[3]
P2-T82	3.20.18	4 to 18	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<9.8	<49	ND	NA[3]
P2-T83	3.20.18	4 to 18	<0.020	<0.041	<0.041	<0.081	ND	<4.1	74	450	**520**	NA[3]
P2-T87	3.20.18	4 to 18	<0.022	<0.043	<0.043	<0.087	ND	7.5	63	760	**830**	NA[3]
P2-T88	3.20.18	4 to 18	<0.019	<0.038	<0.038	<0.075	ND	<3.8	33	490	**520**	NA[3]
P2-T89	3.20.18	4 to 18	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<9.5	<48	ND	NA[3]
P2-T92	3.20.18	3 to 18	0.65	3.2	2.1	13	19	650	47	<50	**700**	NA[3]
P2-T93	3.20.18	3 to 18	0.99	<0.94	3.9	17	22	1,400	19	<44	**1,400**	NA[3]
P2-T94	3.20.18	4 to 17	0.35	<0.19	0.36	1.6	2.3	120	<10	<50	**120**	NA[3]
P2-T99	3.20.18	3 to 16	<0.025	<0.049	0.064	0.14	0.20	13	9,300	790	**10,000**	NA[3]
P2-T100	3.20.18	3 to 16	<0.11	<0.23	<0.23	<0.45	ND	<23	1,100	97	**1,200**	NA[3]
P2-T112	5.2.18	3 to 11	<0.13	<0.25	1.1	25	26	1,500	20	56	**1,600**	NA[3]
P2-T113	5.2.18	3 to 11	0.44	3.0	2.4	15	21	1,600	19	<47	**1,600**	NA[3]
P2-T114	5.2.18	3 to 11	0.94	12	6.3	63	**82**	2,800	44	<46	**2,800**	NA[3]
P2-T115	5.2.18	3 to 11	1.7	12	10	84	**110**	5,100	83	75	**5,300**	NA[3]

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TABLE 6
Largo Compressor Station - Area 3 (Retention Pond Area)
PHASE 1 & 2 EXCAVATION SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH GRO/DRO/MRO[2] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	NE	NE	NE	100	600
P2-118	5.28.19	2 to 10	0.18	3.6	1.5	19	24	390	57	140	**590**	170
P2-119	5.28.19	2 to 10	<0.11	0.93	0.48	7.0	8.4	130	<9.6	<48	**130**	150
P2-120	5.28.19	2 to 10	<0.11	<0.21	0.48	5.6	6.1	140	15	<48	**160**	190
P2-121	5.28.19	2 to 10	<0.11	0.25	0.41	4.0	4.7	98	63	<51	**160**	110
P2-122	5.28.19	2 to 10	<0.023	<0.047	<0.047	0.21	0.21	9.4	<9.9	<49	9.4	140
P2-123	5.28.19	2 to 10	0.19	0.075	0.85	4.7	5.8	230	<9.2	<46	**230**	300
P2-137	5.31.19	2 to 10	<0.13	<0.25	<0.25	5.4	5.4	630	25	53	**710**	290
Resampled Stockpiled Soil Sample from 2015 Corrective Actions												
C3R	8.25.17	Stockpile	<0.023	<0.047	<0.047	<0.093	ND	<4.7	23	60	83	NA[3]
Stockpiled Soil Samples - Overburden (2017-2019)												
P1-SP1	8.23.17	Stockpile	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.8	<49	ND	NA[3]
P1-SP3	9.14.17	Stockpile	<0.020	<0.041	<0.041	<0.082	ND	<4.1	<9.6	<48	ND	NA[3]
SP-4	10.26.17	Stockpile	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.2	47	47	NA[3]
SP-5	4.6.18	Stockpile	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.9	<50	ND	NA[3]
SP-6	4.6.18	Stockpile	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.6	50	50	NA[3]
SP-7	4.6.18	Stockpile	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.6	<48	ND	NA[3]
SP-8	5.31.19	Stockpile	<0.020	<0.039	<0.039	<0.078	ND	<3.9	<10	<50	ND	400
SP-9	5.31.19	Stockpile	<0.021	<0.042	0.12	1.1	1.2	71	<10	<51	71	310
SP-10	5.31.19	Stockpile	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.9	<50	ND	420
Phase 1 & 2 Confirmation Soil Samples (2017-2019)												
P1-1	8.23.17	0 to 17	<0.022	<0.045	<0.045	<0.089	ND	<4.5	<9.7	<49	ND	NA[3]
P1-2	8.23.17	0 to 18	<0.023	<0.047	<0.047	<0.093	ND	<4.7	<9.8	<49	ND	NA[3]
P1-3	8.25.17	0 to 16	<0.013	<0.027	<0.027	<0.053	ND	<2.7	<10	<50	ND	NA[3]
P1-T2	8.28.17	0 to 12	0.027	0.092	<0.048	0.14	0.26	9.5	<9.7	<48	9.5	NA[3]
P1-T20	10.26.17	0 to 16	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.7	<48	ND	NA[3]
P1-T21	10.26.17	0 to 8	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.0	<45	ND	NA[3]
P2-T27	10.26.17	0 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.2	<46	ND	NA[3]
P2-T28	10.26.17	0 to 8	<0.024	<0.048	<0.048	<0.097	ND	10	<9.5	<48	10	NA[3]
P2-T51	12.13.17	2 to 17	<0.021	<0.043	<0.043	<0.086	ND	<4.3	<10	<50	ND	NA[3]
P2-T52	12.13.17	14 to 17	<0.023	<0.046	<0.046	<0.092	ND	<4.6	<9.4	<47	ND	NA[3]
P2-T53	2.2.18	0 to 10	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<10	<50	ND	NA[3]
P2-T54	2.2.18	0 to 15	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<9.6	<48	ND	NA[3]
P2-T55	2.2.18	0 to 15	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.7	<49	ND	NA[3]
P2-T56	2.2.18	6 to 16	<0.022	<0.045	<0.045	<0.090	ND	<4.5	<10	<51	ND	NA[3]

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TABLE 6
Largo Compressor Station - Area 3 (Retention Pond Area)
PHASE 1 & 2 EXCAVATION SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH GRO/DRO/MRO[2] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	NE	NE	NE	100	600
P2-T57	2.2.18	6 to 16	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.6	<48	ND	NA[3]
P2-T58	2.2.18	6 to 16	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<8.7	<44	ND	NA[3]
P2-T59	2.2.18	6 to 16	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.5	<48	ND	NA[3]
P2-T65	2.6.18	0 to 16	<0.029	<0.058	<0.058	<0.12	ND	<5.8	<10	<50	ND	NA[3]
P2-T66	2.6.18	0 to 16	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<9.8	<49	ND	NA[3]
P2-T67	2.6.18	0 to 16	<0.027	<0.053	<0.053	<0.11	ND	<5.3	<9.9	<49	ND	NA[3]
P2-T68	2.6.18	0 to 16	<0.027	<0.054	<0.054	<0.11	ND	<5.4	<9.7	<49	ND	NA[3]
P2-T69	2.15.18	2 to 16	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.5	<48	ND	NA[3]
P2-T70	2.15.18	4 to 15	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.8	<49	ND	NA[3]
P2-T71	2.15.18	4 to 15	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.9	<50	ND	NA[3]
P2-T72	2.15.18	2 to 10	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<9.6	<48	ND	NA[3]
P2-T73	2.15.18	2 to 18	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<10	<50	ND	NA[3]
P2-T74	3.2.18	5 to 18	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<10	<51	ND	NA[3]
P2-T75	3.2.18	5 to 18	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.2	<46	ND	NA[3]
P2-T76	3.2.18	5 to 18	<0.025	<0.050	<0.050	<0.099	ND	<5.0	<9.6	<48	ND	NA[3]
P2-T77	3.2.18	5 to 18	<0.024	<0.049	<0.049	<0.097	ND	<4.9	<9.4	<47	ND	NA[3]
P2-T78	3.2.18	5 to 18	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.5	<47	ND	NA[3]
P2-T79	3.2.18	5 to 18	<0.024	<0.047	<0.047	<0.095	ND	<4.7	<9.8	<49	ND	NA[3]
P2-T80	3.2.18	5 to 18	<0.024	<0.049	<0.049	<0.098	ND	<4.9	<9.6	<48	ND	NA[3]
P2-T81	3.2.18	2 to 18	<0.025	<0.050	<0.050	<0.10	ND	<5.0	<8.8	<44	ND	NA[3]
P2-T84	3.20.18	4 to 18	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.8	<49	ND	NA[3]
P2-T85	3.20.18	2 to 18	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<10	<50	ND	NA[3]
P2-T86	3.20.18	2 to 18	<0.022	<0.043	<0.043	<0.087	ND	<4.3	<10	<51	ND	NA[3]
P2-T90	3.20.18	4 to 18	<0.021	<0.043	<0.043	<0.085	ND	<4.3	<9.4	<47	ND	NA[3]
P2-T91	3.20.18	4 to 18	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.7	<48	ND	NA[3]
P2-T95	3.20.18	3 to 16	<0.019	<0.039	<0.039	<0.077	ND	<3.9	<9.5	<47	ND	NA[3]
P2-T96	3.20.18	3 to 16	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.4	<47	ND	NA[3]
P2-T97	3.20.18	3 to 16	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<8.7	<43	ND	NA[3]
P2-T98	3.20.18	3 to 16	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<9.4	<47	ND	NA[3]
P2-T101	4.6.18	2 to 18	<0.024	<0.047	<0.047	<0.094	ND	<4.7	<9.6	<48	ND	NA[3]
P2-T102	4.6.18	2 to 18	<0.025	<0.049	<0.049	<0.098	ND	<4.9	<9.9	<49	ND	NA[3]
P2-T103	4.6.18	2 to 18	<0.023	<0.045	<0.045	<0.091	ND	<4.5	<9.3	<47	ND	NA[3]
P2-T104	4.6.18	2 to 18	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.3	<46	ND	NA[3]
P2-T105	4.6.18	4 to 16	<0.019	<0.038	<0.038	<0.077	ND	<3.8	<9.4	<47	ND	NA[3]

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TABLE 6
Largo Compressor Station - Area 3 (Retention Pond Area)
PHASE 1 & 2 EXCAVATION SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH GRO/DRO/MRO[2] (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	NE	NE	NE	100	600
P2-T106	4.6.18	4 to 16	<0.021	<0.041	<0.041	<0.083	ND	<4.1	<9.5	<48	ND	NA[3]
P2-T107	4.6.18	4 to 16	<0.019	<0.038	<0.038	<0.075	ND	<3.8	<9.4	<47	ND	NA[3]
P2-T108	4.6.18	4 to 16	<0.020	<0.040	<0.040	<0.080	ND	<4.0	<10	<50	ND	NA[3]
P2-T109	4.6.18	4 to 16	<0.018	<0.037	<0.037	<0.073	ND	<3.7	<9.0	<45	ND	NA[3]
P2-T110	5.2.18	3 to 11	<0.023	<0.047	<0.047	0.095	0.095	9.1	<9.3	<47	9.1	NA[3]
P2-T111	5.2.18	3 to 11	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.1	<46	ND	NA[3]
P2-T116	5.2.18	3 to 11	<0.024	<0.048	<0.048	<0.095	ND	<4.8	<9.1	<46	ND	NA[3]
P2-117	5.28.19	2 to 10	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.4	<47	ND	100
P2-124	5.28.19	2 to 10	<0.021	<0.043	<0.043	<0.086	ND	<4.3	<9.3	<46	ND	410
P2-125	5.28.19	2 to 10	<0.018	<0.036	<0.036	<0.072	ND	<3.6	<9.0	<45	ND	360
P2-126	5.28.19	2 to 10	<0.022	<0.044	<0.044	<0.087	ND	<4.4	<9.7	<48	ND	100
P2-127	5.31.19	2 to 10	<0.022	<0.044	<0.044	<0.089	ND	<4.4	<9.7	<48	ND	590
P2-128	5.31.19	2 to 10	<0.021	<0.043	<0.043	<0.086	ND	<4.3	<9.7	<48	ND	160
P2-129	5.31.19	2 to 10	<0.019	<0.039	<0.039	<0.078	ND	<3.9	<10	<51	ND	220
P2-130	5.31.19	2 to 10	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<8.8	<44	ND	160
P2-131	5.31.19	2 to 10	<0.022	<0.044	<0.044	<0.088	ND	<4.4	<10	<50	ND	89
P2-132	5.31.19	2 to 10	<0.11	<0.22	<0.22	<0.44	ND	<22	<9.7	<48	ND	<60
P2-133	5.31.19	2 to 10	<0.021	<0.041	<0.041	<0.082	ND	<4.1	<9.8	<49	ND	<60
P2-134	5.31.19	2 to 10	<0.021	<0.042	<0.042	<0.085	ND	<4.2	<10	<50	ND	<60
P2-135	5.31.19	2 to 10	<0.018	<0.036	<0.036	<0.071	ND	<3.6	<9.8	<49	ND	69
P2-136	5.31.19	2 to 10	<0.021	<0.042	<0.042	<0.084	ND	<4.2	<9.6	<48	ND	69
P2-138	6.14.19	2 to 10	<0.028	<0.056	<0.056	<0.11	ND	<5.6	<10	<50	ND	410
P2-139	6.14.19	2 to 10	<0.022	<0.044	<0.044	<0.088	ND	<4.4	10	81	91	86
P2-140	6.14.19	2 to 10	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<9.5	<47	ND	210

Notes:

Concentrations in **bold** and yellow exceed the New Mexico EMNRD OCD closure criteria

[1] = The closure criteria listed herein are those approved by the New Mexico EMNRD OCD in 2017 for specific historic releases and the associated remediation activities described in the *Soil Remediation Plan,* Apex, May 11, 2017.

[2] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

[3] = Chlorides are not included in the *Remediation Plan* analytical suite. Chloride concentrations were not identified in excess of New Mexico EMNRD OCD standards during delineation activities.

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Range Organics

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TABLE 7
Largo Compressor Station - Area 1 (Former Condensate Storage Tank Battery)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	100		
Historical Soil Boring Samples Removed by Excavation (2008-2009)										
B-1/P-1/MW-12	3.31.08	4	<0.5	<0.5	1.5	44	ND	**550**	**240**	NA
	3.31.08	14.5	1.8	<0.05	0.12	0.25	ND	6.7	<10	NA
B-2/P-2/MW-11	3.31.08	12.5	<0.5	1.4	0.82	13	15	**240**	**45**	NA
	3.31.08	21	1.5	<0.05	<0.05	0.23	1.7	7.5	<10	NA
Hand Auger -1	8.07.09	5	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
Hand Auger -2	8.07.09	14	<1.0	<1.0	<1.0	<3.0	ND	**980**	**300**	NA
Historical Soil Boring Advanced by Lodestar/LTE (2008-2009)										
B-3/P-3/MW-3R	3.31.08	21	<0.05	<0.05	<0.05	<0.1	ND	<5.0	<10	NA
B-4	3.31.08	23	0.64	<0.05	0.19	0.12	0.95	<5.0	<10	NA
B-5	4.01.08	17.5	1.2	<0.1	1.7	17	19	**400**	**60**	NA
B-6	4.01.08	18	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-7/P-4/MW-14	4.01.08	18	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-8	4.01.08	18	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-9	4.01.08	21	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-10	4.01.08	10	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.01.08	20	0.06	<0.05	0.16	2.3	2.5	55	<10	NA
B-11	4.01.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-12	4.02.08	18.5	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.02.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-13	4.02.08	10	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.02.08	12.5	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.02.08	20	0.092	<0.05	<0.05	<0.10	0.092	9.8	<10	NA
B-14	4.02.08	5	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.02.08	17.5	6.2	5.5	1.8	18	32	**870**	**<10**	NA
	4.02.08	22	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-15	4.02.08	17.5	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	4.02.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-16	4.02.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-17	4.02.08	17.5	0.47	<0.05	<0.05	<0.10	0.47	<5.0	<10	NA
	4.02.08	20	0.069	<0.05	<0.05	<0.10	0.069	<5.0	<10	NA
B-18/P-5/MW-13	4.02.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-19	4.02.08	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA

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TABLE 7
Largo Compressor Station - Area 1 (Former Condensate Storage Tank Battery)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50		100	
B-21/MW-6	8.04.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-22	8.04.09	15	10	25	5.8	62	**100**	**1,200**	**16**	NA
	8.04.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-23	8.04.09	15	<0.25	9.3	4.0	46	**59**	**960**	**18**	NA
	8.04.09	20	0.28	<0.05	<0.05	<0.10	0.28	<5.0	<10	NA
B-24/MW-7	8.04.09	15	<0.25	<0.25	0.63	7.9	8.5	**200**	**10**	NA
	8.04.09	22	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-25/MW-8	8.04.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-26	8.04.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-27/MW-9	8.04.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-28	8.07.09	15	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	8.07.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
B-29	8.07.09	15	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	8.07.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	8.07.09	18	<1.0	<1.0	1.7	18	20	**420**	**17**	NA
B-30	8.07.09	15	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
	8.07.09	20	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
MW-15	Soil Data Unavailable									
MW-16	Soil Data Unavailable									
Historical Soil Boring Advanced by Southwest Geoscience (2010)										
MW-47	11.22.10	16 to 18	<0.05	<0.05	<0.05	<0.10	ND	<5.0	<10	NA
Historical 2013 Excavation Soil Samples Collected by Southwest Geoscience[3]										
A1 Floor 1	9.26.2013	19	<0.049	<0.049	<0.049	<0.049	ND	<4.9	<10	NA
A-1 Floor 2	10.31.2013	19	<0.047	<0.047	<0.047	<0.047	ND	<4.7	<10	NA
A1-NW	10.2.2013	10	<0.050	<0.050	<0.050	<0.099	ND	<5.0	<10	NA
A1-NE	10.2.2013	10	<0.050	<0.050	<0.050	<0.10	ND	<5.0	<10	NA
A1-W	10.2.2013	10	<0.049	<0.049	<0.049	<0.099	ND	<4.9	<10	NA
A1-E	10.2.2013	10	<0.050	<0.050	<0.050	<0.099	ND	<5.0	<10	NA
A1-SW	11.4.2013	12	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	NA
A1-SE	11.4.2013	12	<0.047	<0.047	<0.047	<0.094	ND	<4.7	52	NA
Historical Soil Boring Advanced by Apex TITAN, INC (2014)										
MW-88	8.12.2014	18 to 20	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	NA
MW-89	8.12.2014	18 to 20	<0.048	<0.048	<0.048	<0.096	ND	<4.8	<9.9	NA
	8.12.2014	24 to 26	<0.049	<0.049	<0.049	<0.098	ND	<4.9	<10	NA
MW-90	8.12.2014	16 to 18	<0.047	<0.047	<0.047	<0.095	ND	<4.7	<10	NA

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TABLE 7
Largo Compressor Station - Area 1 (Former Condensate Storage Tank Battery)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX[2] (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria[1]			10	NE	NE	NE	50	100		
Recent Soil Boring Locations Advanced by Apex TITAN, INC (2018)										
SVE-1	4.5.18	18	3.3	<4.6	0.75	6.7	11	**630**	**<9.6**	**<48**
	4.5.18	20	4.3	<1.0	3.0	9.6	17	**1,900**	**13**	**<46**
SVE-2	4.4.18	19	2.4	<0.98	3.6	38	44	**1,300**	**18**	**<45**
	4.4.18	20	0.30	<0.047	0.28	2.9	3.5	**110**	**<9.7**	**<49**
SVE-3	4.4.18	20.5	0.12	<0.048	0.32	3.1	3.5	**220**	**<9.8**	**<49**
SVE-4	4.4.18	19	4.5	<0.047	1.4	13	19	**870**	**<8.7**	**<43**
SVE-5	4.4.18	19	<0.023	<0.046	<0.046	0.13	0.13	13	<7.5	<38
SVE-6	4.4.18	20	<0.023	<0.046	<0.046	<0.093	ND	<4.6	<8.0	<40
SVE-7	4.4.18	19	<0.024	<0.048	<0.048	<0.097	ND	<4.8	<8.1	<40
AS-1	4.3.18	21.5	<0.024	<0.048	<0.048	<0.096	ND	<4.8	<9.9	<50
AS-5	4.3.18	21	0.044	<0.048	0.055	0.40	0.50	48	<8.4	<42
AS-6	4.3.18	21.5	0.39	<0.050	<0.050	<0.099	0.39	<5.0	<9.4	<47

Notes:

Concentrations in **bold** and yellow exceed the applicable NM EMNRD OCD Closure Criteria

[1] = The closure criteria listed herein are those approved by the New Mexico EMNRD OCD in 2017 for specific historic releases and the associated remediation activities described in the *Soil Remediation Plan,* Apex, May 11, 2017.

[2] = Total combined concentrations are rounded to two (2) significant figures to match the laboratory resolution of the individual constituents.

[3] = Details regarding the 2013 corrective actions can be found in the *Remediation Plan (Corrective Action Status Report)* , Southwest Geoscience, March 19, 2014.

mg/kg = milligrams per kilogram

NA = Not Analyzed

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits / Practical Quantitation Limits

BTEX = Benzene, Toluene, Ethylbenzne, and Total Xylenes

TPH = Total Petroleum Hydrocarbons

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
Monitoring Wells Installed by Lodestar								
P-3	4.04.08	NA	**780**	13	81	20	4.2	<1.0
	8.10.09	NA	**35**	<1.0	3.8	<2.0	NA	NA
	11.24.09	NA	1.4	<1.0	1.5	<2.0	NA	NA
	2.25.10	NA	3.6	10	2	24	NA	NA
MW-3R (P-3*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**13**	<1.0	1.3	6.4	1.4	1
	8.26.10	NA	5.0	<1.0	<1.0	2.3	0.46	<1.0
	11.18.10	NA	3.9	<1.0	<1.0	<2.0	0.47	<1.0
	2.1.11	NA	2.0	<1.0	<1.0	<2.0	0.16	<1.0
	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	1.5	<1.0	<1.0	7.1	1.50	<1.0
	10.27.11	NA	1.1	<1.0	<1.0	<2.0	0.57	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	0.36	<1.0
	10.19.12	NA	<1.0	<1.0	1.2	2.8	0.48	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	2.8	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-6	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	8,420	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.14.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-7	8.10.09	NA	**15,000**	<100	380	310	NA	NA
	11.24.09	NA	**13,000**	<100	150	<200	NA	NA
	2.25.10	NA	**3,000**	<10	40	31	NA	NA
	4.05.10	NA	**940**	<10	<10	<20	4.2	1.3
	5.27.10	NA	**700**	<10	11	<20	NA	NA
	7.13.10	NA	**15,000**	<10	130	25	51	4.6
	8.26.10	NA	**5,300**	<20	35	<40	18	1.7
	11.18.10	NA	**3,700**	<20	62	<40	11	1.2
	2.1.11	NA	**1,800**	<1.0	10	4.6	2.2	<1.0
	4.19.11	NA	**250**	<1.0	2.9	2.4	0.75	<1.0
	5.19.11	NA	**1,400**	<5.0	15.0	<10	4.0	<1.0
	7.28.11	NA	**75**	<5.0	200	62.0	45	2.7
	10.28.11	NA	**1,300**	<10	140	<20	32	6.1
	1.31.12	NA	**9,000**	<10	110	<20	21	4.5
	4.19.12	NA	**790**	<10	15	<20	2.7	<1.0
	7.31.12	NA	**2,500**	<10	35	<20	6.4	<1.0
	10.19.12	NA	**8,200**	<10	130	36.0	32	2.5
	4.24.13	NA	**120**	<1.0	2.1	<2.0	0.60	<1.0
	10.25.13	NA	**45**	<1.0	<1.0	<2.0	0.19	<1.0
	4.22.14	NA	**43**	<1.0	<1.0	3.1	0.13	<1.0
	10.29.14	NA	2.3	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	**24**	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	**25**	<1.0	<1.0	3.6	NA	NA
	4.27.16	NA	7.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	**500**	<1.0	6.7	2.3	NA	NA
	5.18.17	NA	**27**	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	**1,300**	<1.0	17	<2.0	NA	NA
	5.08.18	NA	**35**	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	**5,800**	<1.0	63	<2.0	NA	NA
	6.14.19	NA	**17**	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-8	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-9	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.14.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
P-2	4.04.08	NA	**15,000**	**2,100**	380	**4,600**	120	6.8
	8.10.09	NA	**9,800**	110	170	**1,400**	NA	NA
	11.24.09	NA	**21,000**	360	460	**2,700**	NA	NA
	2.25.10	NA	**19,000**	380	380	**2,800**	NA	NA
MW-11 (P-2*)	4.05.10	NA	<1.0	<1.7	<1.0	3.3	0.22	<1.0
	5.27.10	NA	4.4	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**700**	4.5	11	56	3.6	1.2
	8.26.10	NA	**86**	<1.0	1.3	4.9	0.4	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	0.14	<1.0
	2.4.11	NA	**21**	<1.0	<1.0	<1.0	0.075	<1.0
	4.19.11	NA	**96**	12	1.2	27	0.39	<1.0
	7.28.11	NA	**46**	<1.0	38	76	11	1.7
	10.28.11	NA	**1,600**	<10	31	37	4.6	2.2
	1.31.12	NA	**470**	<10	12	<20	1.3	<1.0
	4.19.12	NA	**84**	<1.0	3.2	<2.0	0.43	<1.0
	7.31.12	NA	**36**	<1.0	2.6	<2.0	0.24	<1.0
	10.19.12	NA	**1,100**	<1.0	11	41	5.3	<1.0
	4.24.13	NA	**40**	<1.0	1.5	<2.0	0.14	<1.0
	9.6.13	Monitoring well was removed during remediation						

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
P-1	4.04.08	NA	**5,700**	**2,200**	310	**5,500**	53	<1.0
	8.10.09	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
	11.24.09	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
	2.25.10	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
MW-12 (P-1*)	4.05.10	NA	**1,300**	**1,600**	110	**2,200**	20	1.2
	5.27.10	NA	**3,300**	**1,800**	180	**3,200**	NA	NA
	7.13.10	NA	**2,900**	330	140	**1,700**	22	1.0
	8.26.10	NA	**1,200**	420	70	**1,300**	13	<1.0
	11.18.10	NA	**1,100**	69	61	**720**	6.3	<1.0
	2.4.11	NA	**5,900**	<50	470	**1,600**	24	<1.0
	4.19.11	NA	**4,200**	190	<100	330	14	<1.0
	5.19.11	NA	**1,000**	520	36	**660**	13	15
	7.28.11	NA	**12,000**	**2,300**	320	**3,200**	54	3.9
	10.28.11	NA	**4,900**	59	130	**3,300**	29	7.3
	1.31.12	NA	**4,400**	62	110	**1,500**	18	11
	4.19.12	NA	**4,300**	53	150	**930**	22	5.8
	7.31.12	NA	**4,600**	<50	160	**920**	17	3.3
	10.19.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.24.13	NA	**6,900**	150	96	**850**	23	5.8
	9.6.13	Monitoring well was removed during remediation						
P-5	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.1	<1.0
	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	1.8	6.1	<1.0	11	NA	NA
MW-13 (P-5*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	2.3.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.14.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
P-4	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.42	<1.0
	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	2.5	7.5	<1.0	14	NA	NA
MW-14 (P-4*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	2.1.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-15	4.05.10	NA	1.1	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	7.13.10	NA	**490**	2.2	7.2	15	3.2	<1.0
	8.26.10	NA	**20**	<1.0	<1.0	<2.0	0.095	<1.0
	11.18.10	NA	8.9	<1.0	<1.0	<2.0	0.19	<1.0
	2.1.11	NA	**16**	<1.0	<1.0	<2.0	0.06	<1.0
	4.18.11	NA	**13**	<1.0	<1.0	<2.0	0.14	<1.0
	7.28.11	NA	**1500**	<1.0	19	20	6.7	<1.0
	10.28.11	NA	**810**	<10	<10	<20	2.2	1.0
	1.30.12	NA	**150**	<10	<10	<20	0.51	<1.0
	4.18.12	NA	**23**	<1.0	1.4	<2.0	0.21	<1.0
	7.31.12	NA	**64**	<1.0	1.1	<2.0	0.22	<1.0
	10.19.12	NA	**400**	<1.0	7.2	7.8	2.0	<1.0
	4.24.13	NA	6.4	<1.0	<1.0	<2.0	0.094	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	**28**	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	1.3	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	2.2	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	9.9	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-16	4.05.10	NA	3.8	1.5	1.4	11	0.36	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**47**	<1.0	<1.0	<2.0	0.3	<1.0
	8.26.10	NA	**16**	<1.0	<1.0	<2.0	0.095	<1.0
	11.18.10	NA	3.4	<1.0	<1.0	<2.0	0.11	<1.0
	2.1.11	NA	**61**	<1.0	1.3	2.1	0.20	<1.0
	4.18.11	NA	**34**	<1.0	3.7	4.4	0.16	<1.0
	7.28.11	NA	**43**	<1.0	1.9	<2.0	0.29	<1.0
	10.27.11	NA	**21**	<1.0	<1.0	<2.0	0.19	<1.0
	1.30.12	NA	**10**	<1.0	<1.0	<2.0	0.096	<1.0
	4.18.12	NA	**20**	<1.0	1.0	<2.0	0.14	<1.0
	7.31.12	NA	**46**	<1.0	1.9	<2.0	0.23	<1.0
	10.19.12	NA	**100**	<1.0	3.9	<2.0	0.38	<1.0
	4.24.13	NA	**10**	<1.0	<1.0	<2.0	0.097	<1.0
	10.28.13	NA	**11**	<1.0	1.2	<2.0	0.052	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	1.6	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	3.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	6.5	<1.0	1.1	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	3.1	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.14.19	NA	6.3	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
Monitoring Wells Installed by Apex TITAN (formerly Southwest Geoscience)								
TSW-31	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17[1]	NA	NS	NS	NS	NS	NS	NS
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-33	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.21.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.27.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.28.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.22.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.29.16	Monitoring well removed during October 2015 remediation						
MW-34	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-35	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.21.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.27.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.28.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.22.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.29.16	Monitoring well removed during October 2015 remediation						

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-36	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<1.0	2.1	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17[1]	NA	NS	NS	NS	NS	NS	NS
	02.27.18	Monitoring well removed during October 2017 remediation						
MW-37	2.4.11	NA	**3,100**	**6,200**	700	**7,000**	38	3.9
	4.20.11	NA	**2,500**	**3,600**	500	**5,100**	34	4.2
	7.28.11	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	10.26.11	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	1.27.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.18.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	7.30.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	10.19.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.23.13	NA	**670**	260	230	**1,100**	13	4.1
	10.29.13	NA	**580**	170	150	610	10	7.7
	4.24.14	NA	**740**	49	120	450	7.2	4.9
	10.30.14	NA	**770**	<20	140	510	NA	NA
	5.7.15	NA	**1,500**	220	330	**1,300**	NA	NA
	10.23.15	NA	**1,000**	21	360	**2,000**	NA	NA
	5.2.16	NA	**820**	<10	180	510	NA	NA
	11.8.16	NA	**590**	<10	340	**1,600**	NA	NA
	5.24.17	NA	**1,100**	<10	480	**2,200**	NA	NA
	10.17.17	NA	**750**	<5.0	280	**1,100**	NA	NA
	3.08.18	Monitoring well removed during October 2017 remediation						
MW-38	1.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	3,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-39	1.26.11	NA	**1,200**	730	37	570	11	<1.0
	4.19.11	NA	**120**	<1.0	1.6	5.9	0.33	<1.0
	7.29.11	NA	**27**	14	1.9	18	0.80	<1.0
	10.27.11	NA	**260**	<1.0	1.2	3.5	0.44	<1.0
	1.27.12	NA	**580**	48	4.3	79	1.8	<1.0
	4.18.12	NA	**1,500**	620	36	**860**	12	112
	7.30.12	NA	**170**	<2.0	<2.0	8.6	0.58	<1.0
	10.17.12	NA	**13**	<2.0	<2.0	<4.0	<0.10	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	**18**	<1.0	<1.0	<2.0	0.11	<1.0
	4.23.14	NA	9.6	<1.0	<1.0	<2.0	0.056	<1.0
	10.29.14	NA	5.5	<1.0	<1.0	<2.0	NA	NA
	5.7.15	NA	**25**	<1.0	<1.0	3.1	NA	NA
	10.29.15	NA	**13**	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	9.8	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	4.1	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	1.9	<1.0	<1.0	<1.5	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.11.18	NA	1.2	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	1.2	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-40 **	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.26.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	1.27.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40R	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	7,930	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.14.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-41	1.31.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	4.18.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	7.29.11	NA	<5.0	<5.0	<5.0	<10	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	30,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	3.8	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-42	2.4.11	NA	<5.0	<5.0	<5.0	<10	<0.25	NA
	3.3.11	75,400	NA	NA	NA	NA	NA	NA
	4.19.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.16.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
	4.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	4.21.14	NA	Insufficient water to collect sample.					
	10.29.14	NA						
	4.28.15	NA						
	10.22.15	NA						
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	Insufficient water to collect sample.					
	5.17.17	NA	<5.0	<5.0	<5.0	<10	NA	NA
	10.17.17	NA	Insufficient water to collect sample.					
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.04.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	Insufficient water to collect sample.					
	12.17.19[2]	NA	Obstructed					
	4.28.20[2]	NA						
	10.27.20[2]	NA						

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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-43	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	0.06	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	7,630	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	10.24.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
TSW-44	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-45	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-46	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-47	1.28.11	NA	<5.0	<5.0	<5.0	<10	1.3	2.5
	4.18.11	NA	<5.0	<5.0	<5.0	<10	2.0	1.2
	7.28.11	NA	<5.0	<5.0	<5.0	27.0	6.6	1.1
	10.28.11	NA	<5.0	<5.0	<5.0	<10	1.4	2.7
	1.30.12	NA	<5.0	<5.0	<5.0	<10	2.6	2.5
	4.18.12	NA	**11**	<5.0	16	38	5.5	2.9
	7.31.12	NA	<10	<10	<10	<20	4.5	2.9
	10.18.12	NA	<5.0	<5.0	<5.0	91	12	1.8
	4.24.13	NA	<5.0	<5.0	5.0	<10	6.4	2.3
	10.24.13	NA	**190**	<5.0	8.9	<10	9.1	4.7
	4.28.14	NA	**700**	<5.0	27	<10	8.5	4.0
	10.29.14	NA	**750**	<10	29	<20	NA	NA
	5.7.15	NA	**420**	<10	25	<20	NA	NA
	10.29.15	NA	**92**	<1.0	21	2.8	NA	NA
	4.28.16	Monitoring Well Damaged						
MW-48	4.18.12	NA	**290**	**3,200**	360	**5,000**	25	1.3
	7.30.12	NA	**120**	**1,100**	160	**2,900**	15	<1.0
	10.17.12	NA	**190**	580	150	**1,700**	8.5	<1.0
	4.23.13	NA	**140**	<5.0	170	310	2.9	<1.0
	10.29.13	NA	**67**	<5.0	51	83	0.87	<1.0
	4.28.14	NA	9.2	<1.0	7.8	15	0.25	<1.0
	10.30.14	NA	**48**	<1.0	40	60	NA	NA
	5.7.15	NA	3.1	<1.0	3.8	5.6	NA	NA
	10.27.15	NA	**51**	<1.0	33	53	NA	NA
	4.28.16	NA	2.0	<1.0	1.9	2.9	NA	NA
	10.17.16	NA	**26**	<1.0	17	26	NA	NA
	5.23.17	NA	3.1	<1.0	1.7	1.6	NA	NA
	10.17.17	NA	**28**	<1.0	17	21	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	**11**	<1.0	7	10	NA	NA
	6.20.19	NA	6.1	<1.0	3.8	4.6	NA	NA
	12.23.19	NA	**14**	<1.0	3.5	19	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	**24**	<1.0	6.8	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-49	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.20.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20[3]	NS	NS	NS	NS	NS	NS	NS
MW-50	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-51	4.18.12	NA	**1,200**	**3,600**	150	**1,400**	19	<1.0
	7.30.12	NA	**51**	5.5	17	78	1.3	<1.0
	10.16.12	NA	**14**	<1.0	4.8	21	0.16	<1.0
	4.23.13	NA	3.0	<1.0	1.5	<2.0	0.078	<1.0
	10.23.13	NA	8.2	<1.0	<1.0	<2.0	0.066	<1.0
	4.23.14	NA	1.1	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	5.3	<1.0	<1.0	<2.0	NA	NA
	5.7.15	NA	2.3	<1.0	<1.0	<2.0	NA	NA
	10.29.15	NA	4.9	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	1.7	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	4.9	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	1.3	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-52	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	27,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	**30**	<1.0	<1.0	<2.0	0.11	<1.0
	10.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.18.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.19.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-53	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.20.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-54	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.28.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.20.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-55	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	13	**710**	1.3	<1.0
	10.29.13	NA	<1.0	<1.0	1.4	<2.0	<0.050	<1.0
	4.28.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.17.17	NA	NS	NS	NS	NS	NS	NS
	10.17.17	NA	NS	NS	NS	NS	NS	NS
	5.10.18	NA	<10	<10	<10	<15	NA	NA
	10.08.18[4]	Obstructed						

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-75	01.29.13	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.04.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.23.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-76	6.3.13	14,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.20	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
MW-77	6.3.13	**17,900**	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-79	6.3.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10[A]	750[A]	750[A]	620[A]	NE	NE
MW-80	6.3.13	13,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-83	6.3.13	14,500	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.19.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.20.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.20	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-88	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
MW-89	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA

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TABLE 8
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		**NE**	**10[A]**	**750[A]**	**750[A]**	**620[A]**	**NE**	**NE**
MW-90	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	6.13.19	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	12.17.19	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.20	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.27.20[3]	NS	NS	NS	NS	NS	NS	NS

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

µg/L = micrograms per liter

mg/L = milligrams per liter

NA = Not Analyzed

NE = Not Established

NS = Not Sampled

NAPL = Non-aqueous phase liquid

* = piezometer well was replaced with associated monitoring well

** = Monitoring well MW-40 was replaced by MW-40R

[A] = NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD has not responded to Enterprise's inquiries regarding which closure standards will apply to sites that predate the 2018 rule change. Therefore, this table reflects the groundwater quality standards that were applicable at the time of initial remediation.

[1] = Monitoring well inaccessible due to 2017 excavation activities

[2] = Monitoring well MW-42 was not sampled due to an obstruction in the well casing.

[3] = Monitoring well was dry therefore no sample was collected.

[4] = Monitoring well MW-55 has not been sampled since October 2018 due to obstruction of the well casing.

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-3R	4.5.10	6117.48	None Observed	21.83	0.0	NA	NA	6095.65
	5.27.10		None Observed	21.82	0.0			6095.66
	6.25.10		None Observed	22.22	0.0			6095.26
	7.13.10		None Observed	22.47	0.0			6095.01
	8.26.10		None Observed	22.24	0.0			6095.24
	11.18.10		None Observed	22.32	0.0			6095.16
	1.25.11		None Observed	22.13	0.0			6095.35
	4.22.11		None Observed	21.99	0.0			6095.49
	7.27.11		None Observed	22.81	0.0			6094.67
	10.26.11		None Observed	22.91	0.0			6094.57
	1.26.12		None Observed	22.74	0.0			6094.74
	4.19.12		None Observed	22.61	0.0			6094.87
	7.31.12		None Observed	22.66	0.0			6094.82
	10.18.12		None Observed	23.04	0.0			6094.44
	4.24.13		None Observed	22.50	0.0			6094.98
	10.23.13		None Observed	21.12	0.0			6096.36
	4.21.14		None Observed	21.97	0.0			6095.51
	10.27.14		None Observed	22.20	0.0			6095.28
	4.28.15		None Observed	21.83	0.0			6095.65
	10.20.15		None Observed	21.96	0.0			6095.52
	4.08.16		None Observed	21.60	0.0			6095.88
	10.07.16		None Observed	22.44	0.0			6095.04
	5.17.17		None Observed	21.70	0.0			6095.78
	10.10.17		None Observed	22.32	0.0			6095.16
	5.04.18		None Observed	22.15	0.0			6095.33
	10.04.18		None Observed	22.89	0.0			6094.59
	5.30.19		None Observed	22.11	0.0			6095.37
	12.13.19		None Observed	21.68	0.0			6095.80
	4.28.20		None Observed	22.85	0.0			6094.63
	10.26.20		None Observed	23.96	0.0			6093.52
MW-6	8.10.09	6115.47	None Observed	20.28	0.0	NA	NA	6095.19
	11.24.09		None Observed	20.17	0.0			6095.30
	2.25.10		None Observed	19.54	0.0			6095.93
	4.5.10		None Observed	19.11	0.0			6096.36
	5.27.10		None Observed	19.28	0.0			6096.19
	6.25.10		None Observed	19.87	0.0			6095.60
	7.13.10		None Observed	20.09	0.0			6095.38
	8.26.10		None Observed	19.68	0.0			6095.79
	11.18.10		None Observed	19.72	0.0			6095.75
	1.25.11		None Observed	19.51	0.0			6095.96
	4.22.11		None Observed	19.42	0.0			6096.05
	7.27.11		None Observed	20.40	0.0			6095.07
	10.26.11		None Observed	20.43	0.0			6095.04
	1.26.12		None Observed	20.15	0.0			6095.32
	4.19.12		None Observed	Not Gauged	0.0			Not Gauged
	7.31.12		None Observed	19.93	0.0			6095.54
	10.18.12		None Observed	20.47	0.0			6095.00
	4.24.13		None Observed	19.89	0.0			6095.58
	10.23.13		None Observed	19.42	0.0			6096.05
	4.21.14		None Observed	19.34	0.0			6096.13
	10.27.14		None Observed	19.50	0.0			6095.97
	4.28.15		None Observed	19.12	0.0			6096.35
	10.20.15		None Observed	19.32	0.0			6096.15
	4.08.16		None Observed	19.02	0.0			6096.45
	10.07.16		None Observed	19.89	0.0			6095.58
	5.17.17		None Observed	19.06	0.0			6096.41
	10.10.17		None Observed	19.64	0.0			6095.83
	5.04.18		None Observed	19.65	0.0			6095.82
	10.04.18		None Observed	20.28	0.0			6095.19
	5.30.19		None Observed	19.50	0.0			6095.97
	12.13.19[5]		None Observed	Errant Gauge	0.0			Errant Gauge
	4.28.20		None Observed	20.19	0.0			6095.28
	10.26.20		None Observed	21.46	0.0			6094.01

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-7	8.10.09	6116.65	None Observed	21.52	0.0	NA	NA	6095.13
	11.24.09		None Observed	21.73	0.0			6094.92
	2.25.10		None Observed	21.42	0.0			6095.23
	4.5.10		None Observed	20.96	0.0			6095.69
	5.27.10		None Observed	20.96	0.0			6095.69
	6.25.10		None Observed	21.32	0.0			6095.33
	7.13.10		None Observed	21.46	0.0			6095.19
	8.26.10		None Observed	21.36	0.0			6095.29
	11.18.10		None Observed	21.42	0.0			6095.23
	1.25.11		None Observed	21.24	0.0			6095.41
	4.22.11		None Observed	21.22	0.0			6095.43
	7.27.11		None Observed	21.80	0.0			6094.85
	10.26.11		None Observed	21.94	0.0			6094.71
	1.26.12		None Observed	21.82	0.0			6094.83
	4.19.12		None Observed	21.70	0.0			6094.95
	7.31.12		None Observed	21.88	0.0			6094.77
	10.18.12		None Observed	22.12	0.0			6094.53
	4.24.13		None Observed	21.65	0.0			6095.00
	10.23.13		None Observed	21.43	0.0			6095.22
	4.21.14		None Observed	21.20	0.0			6095.45
	10.27.14		None Observed	21.39	0.0			6095.26
	4.28.15		None Observed	20.99	0.0			6095.66
	10.20.15		None Observed	21.13	0.0			6095.52
	4.08.16		None Observed	20.79	0.0			6095.86
	10.07.16		None Observed	21.58	0.0			6095.07
	5.17.17		None Observed	20.82	0.0			6095.83
	10.10.17		None Observed	21.47	0.0			6095.18
	5.04.18		None Observed	21.35	0.0			6095.30
	10.04.18		None Observed	22.05	0.0			6094.60
	5.30.19		None Observed	21.25	0.0			6095.40
	12.13.19[5]		None Observed	Errant Gauge	0.0			Errant Gauge
	4.28.20		None Observed	22.03	0.0			6094.62
	10.26.20[5]		None Observed	19.82	0.0			6096.83
MW-8	8.10.09	6118.28	None Observed	23.17	0.0	NA	NA	6095.11
	11.24.09		None Observed	23.43	0.0			6094.85
	2.25.10		None Observed	23.25	0.0			6095.03
	4.5.10		None Observed	22.97	0.0			6095.31
	5.27.10		None Observed	22.85	0.0			6095.43
	6.25.10		None Observed	23.01	0.0			6095.27
	7.13.10		None Observed	23.21	0.0			6095.07
	8.26.10		None Observed	23.23	0.0			6095.05
	11.18.10		None Observed	23.30	0.0			6094.98
	1.25.11		None Observed	23.10	0.0			6095.18
	4.22.11		None Observed	22.94	0.0			6095.34
	7.27.11		None Observed	23.56	0.0			6094.72
	10.26.11		None Observed	23.75	0.0			6094.53
	1.26.12		None Observed	23.64	0.0			6094.64
	4.19.12		None Observed	23.54	0.0			6094.74
	7.31.12		None Observed	23.19	0.0			6095.09
	10.18.12		None Observed	23.96	0.0			6094.32
	4.24.13		None Observed	23.54	0.0			6094.74
	10.23.13		None Observed	23.38	0.0			6094.90
	4.21.14		None Observed	22.91	0.0			6095.37
	10.27.14		None Observed	23.33	0.0			6094.95
	4.28.15		None Observed	22.86	0.0			6095.42
	10.20.15		None Observed	23.10	0.0			6095.18
	4.08.16		None Observed	22.65	0.0			6095.63
	10.07.16		None Observed	23.36	0.0			6094.92
	5.17.17		None Observed	22.73	0.0			6095.55
	10.10.17		None Observed	23.46	0.0			6094.82
	5.04.18		None Observed	23.12	0.0			6095.16
	10.04.18		None Observed	23.90	0.0			6094.38
	5.30.19		None Observed	23.20	0.0			6095.08
	12.13.19		None Observed	23.64	0.0			6094.64
	4.28.20		None Observed	23.89	0.0			6094.39
	10.26.20		None Observed	24.85	0.0			6093.43

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-9	8.10.09	6117.83	None Observed	21.95	0.0	NA	NA	6095.88
	11.24.09		None Observed	21.98	0.0			6095.85
	2.25.10		None Observed	21.51	0.0			6096.32
	4.5.10		None Observed	21.00	0.0			6096.83
	5.27.10		None Observed	21.10	0.0			6096.73
	6.25.10		None Observed	21.56	0.0			6096.27
	7.13.10		None Observed	21.77	0.0			6096.06
	8.26.10		None Observed	21.58	0.0			6096.25
	11.18.10		None Observed	21.61	0.0			6096.22
	1.25.11		None Observed	21.43	0.0			6096.40
	4.22.11		None Observed	21.30	0.0			6096.53
	7.27.11		None Observed	22.15	0.0			6095.68
	10.26.11		None Observed	22.25	0.0			6095.58
	1.26.12		None Observed	22.04	0.0			6095.79
	4.19.12		None Observed	21.88	0.0			6095.95
	7.31.12		None Observed	21.98	0.0			6095.85
	10.18.12		None Observed	22.37	0.0			6095.46
	4.24.13		None Observed	21.79	0.0			6096.04
	10.23.13		None Observed	21.39	0.0			6096.44
	4.21.14		None Observed	21.20	0.0			6096.63
	10.27.14		None Observed	21.48	0.0			6096.35
	4.28.15		None Observed	21.06	0.0			6096.77
	10.20.15		None Observed	21.27	0.0			6096.56
	4.08.16		None Observed	20.85	0.0			6096.98
	10.07.16		None Observed	21.79	0.0			6096.04
	5.17.17		None Observed	22.90	0.0			6094.93
	10.10.17		None Observed	21.73	0.0			6096.10
	5.04.18		None Observed	21.53	0.0			6096.30
	10.04.18		None Observed	22.26	0.0			6095.57
	5.30.19		None Observed	21.41	0.0			6096.42
	12.13.19		None Observed	22.05	0.0			6095.78
	4.28.20		None Observed	22.14	0.0			6095.69
	10.26.20		None Observed	23.23	0.0			6094.60
MW-11	4.5.10	6116.65	None Observed	20.57	0.0	NA	NA	6096.08
	5.27.10		None Observed	20.75	0.0			6095.90
	6.25.10		None Observed	21.33	0.0			6095.32
	7.13.10		None Observed	21.54	0.0			6095.11
	8.26.10		None Observed	21.17	0.0			6095.48
	11.18.10		None Observed	21.16	0.0			6095.49
	1.25.11		None Observed	21.02	0.0			6095.63
	4.22.11		None Observed	20.91	0.0			6095.74
	7.27.11		None Observed	21.89	0.0			6094.76
	10.26.11		None Observed	21.94	0.0			6094.71
	1.26.12		None Observed	21.64	0.0			6095.01
	4.19.12		None Observed	21.49	0.0			6095.16
	7.31.12		None Observed	21.49	0.0			6095.16
	10.18.12		None Observed	21.98	0.0			6094.67
	4.24.13		None Observed	21.40	0.0			6095.25
	9.6.13		Monitoring well was removed during remediation September 2013					
MW-12	4.5.10	6111.24	None Observed	14.88	0.0	NA	NA	6096.36
	5.27.10		None Observed	15.11	0.0			6096.13
	6.25.10		None Observed	15.67	0.0			6095.57
	7.13.10		None Observed	15.91	0.0			6095.33
	8.26.10		None Observed	15.55	0.0			6095.69
	11.18.10		None Observed	16.58	0.0			6094.66
	1.25.11		None Observed	15.73	0.0			6095.51
	4.22.11		None Observed	15.30	0.0			6095.94
	7.27.11		None Observed	16.10	0.0			6095.14
	10.26.11		None Observed	16.21	0.0			6095.03
	1.26.12		None Observed	15.99	0.0			6095.25
	4.19.12		None Observed	15.83	0.0			6095.41
	7.31.12		None Observed	15.83	0.0			6095.41
	10.18.12		16.30	16.31	0.01			6094.94
	4.24.13		None Observed	15.68	0.00			6095.56
	9.6.13		Monitoring well was removed during remediation September 2013					

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-13	4.5.10	6115.46	None Observed	19.26	0.0	NA	NA	6096.20
	5.27.10		None Observed	19.47	0.0			6095.99
	6.25.10		None Observed	20.07	0.0			6095.39
	7.13.10		None Observed	20.28	0.0			6095.18
	8.26.10		None Observed	19.86	0.0			6095.60
	11.18.10		None Observed	19.91	0.0			6095.55
	1.25.11		None Observed	19.71	0.0			6095.75
	4.22.11		None Observed	19.65	0.0			6095.81
	7.27.11		None Observed	20.59	0.0			6094.87
	10.26.11		None Observed	20.62	0.0			6094.84
	1.26.12		None Observed	20.34	0.0			6095.12
	4.19.12		None Observed	20.19	0.0			6095.27
	7.31.12		None Observed	20.15	0.0			6095.31
	10.18.12		None Observed	20.67	0.0			6094.79
	4.24.13		None Observed	20.10	0.0			6095.36
	10.23.13		None Observed	19.64	0.0			6095.82
	4.21.14		None Observed	19.63	0.0			6095.83
	10.27.14		None Observed	19.77	0.0			6095.69
	4.28.15		None Observed	19.37	0.0			6096.09
	10.20.15		None Observed	19.54	0.0			6095.92
	4.08.16		None Observed	19.24	0.0			6096.22
	10.07.16		None Observed	20.13	0.0			6095.33
	5.17.17		None Observed	19.30	0.0			6096.16
	10.10.17		None Observed	19.86	0.0			6095.60
	5.04.18		None Observed	19.88	0.0			6095.58
	10.04.18		None Observed	20.52	0.0			6094.94
	5.30.19		None Observed	19.73	0.0			6095.73
	12.13.19		None Observed	19.42	0.0			6096.04
	4.28.20		None Observed	20.45	0.0			6095.01
	10.26.20		None Observed	21.66	0.0			6093.80
MW-14	4.5.10	6115.99	None Observed	20.09	0.0	NA	NA	6095.90
	5.27.10		None Observed	20.28	0.0			6095.71
	6.25.10		None Observed	20.94	0.0			6095.05
	7.13.10		None Observed	21.19	0.0			6094.80
	8.26.10		None Observed	20.70	0.0			6095.29
	11.18.10		None Observed	20.73	0.0			6095.26
	1.25.11		None Observed	20.52	0.0			6095.47
	4.22.11		None Observed	20.45	0.0			6095.54
	7.27.11		None Observed	21.47	0.0			6094.52
	10.26.11		None Observed	21.48	0.0			6094.51
	1.26.12		None Observed	21.15	0.0			6094.84
	4.19.12		None Observed	21.00	0.0			6094.99
	7.31.12		None Observed	21.00	0.0			6094.99
	10.18.12		None Observed	21.50	0.0			6094.49
	4.24.13		None Observed	20.91	0.0			6095.08
	10.23.13		None Observed	20.43	0.0			6095.56
	4.21.14		None Observed	21.38	0.0			6094.61
	10.27.14		None Observed	20.58	0.0			6095.41
	4.28.15		None Observed	20.16	0.0			6095.83
	10.20.15		None Observed	20.36	0.0			6095.63
	4.08.16		None Observed	20.05	0.0			6095.94
	10.07.16		None Observed	20.86	0.0			6095.13
	5.17.17		None Observed	20.10	0.0			6095.89
	10.10.17		None Observed	20.70	0.0			6095.29
	5.04.18**		None Observed	Errant Gauge	0.0			Errant Gauge
	10.04.18		None Observed	21.38	0.0			6094.61
	5.30.19		None Observed	20.56	0.0			6095.43
	12.13.19		None Observed	19.92	0.0			6096.07
	4.28.20		None Observed	21.28	0.0			6094.71
	10.26.20		None Observed	22.50	0.0			6093.49

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-15	4.5.10	6116.49	None Observed	20.66	0.0	NA	NA	6095.83
	5.27.10		None Observed	20.82	0.0			6095.67
	6.25.10		None Observed	21.43	0.0			6095.06
	7.13.10		None Observed	21.64	0.0			6094.85
	8.26.10		None Observed	21.25	0.0			6095.24
	11.18.10		None Observed	21.36	0.0			6095.13
	1.25.11		None Observed	21.07	0.0			6095.42
	4.22.11		None Observed	20.95	0.0			6095.54
	7.27.11		None Observed	21.95	0.0			6094.54
	10.26.11		None Observed	21.98	0.0			6094.51
	1.26.12		None Observed	21.70	0.0			6094.79
	4.19.12		None Observed	21.56	0.0			6094.93
	7.31.12		None Observed	Errant Gauge	0.0			Errant Gauge
	10.18.12		None Observed	22.05	0.0			6094.44
	4.24.13		None Observed	21.50	0.0			6094.99
	4.21.14		None Observed	20.92	0.0			6095.57
	10.27.14		None Observed	21.17	0.0			6095.32
	4.28.15		None Observed	20.74	0.0			6095.75
	10.20.15		None Observed	20.90	0.0			6095.59
	4.08.16		None Observed	20.58	0.0			6095.91
	10.07.16		None Observed	21.48	0.0			6095.01
	5.17.17		None Observed	20.65	0.0			6095.84
	10.10.17		None Observed	21.25	0.0			6095.24
	5.04.18		None Observed	21.21	0.0			6095.28
	10.04.18		None Observed	21.94	0.0			6094.55
	5.30.19		None Observed	21.09	0.0			6095.40
	12.13.19		None Observed	20.30	0.0			6096.19
	4.28.20		None Observed	21.85	0.0			6094.64
	10.26.20		None Observed	23.11	0.0			6093.38
MW-16	4.5.10	6117.57	None Observed	21.51	0.0	NA	NA	6096.06
	5.27.10		None Observed	51.59	0.0			6065.98
	6.25.10		None Observed	22.10	0.0			6095.47
	7.13.10		None Observed	22.29	0.0			6095.28
	8.26.10		None Observed	22.05	0.0			6095.52
	11.18.10		None Observed	22.11	0.0			6095.46
	1.25.11		None Observed	21.87	0.0			6095.70
	4.22.11		None Observed	21.76	0.0			6095.81
	7.27.11		None Observed	22.66	0.0			6094.91
	10.26.11		None Observed	22.71	0.0			6094.86
	1.26.12		None Observed	22.50	0.0			6095.07
	4.19.12		None Observed	22.38	0.0			6095.19
	7.31.12**		None Observed	Errant Gauge	0.0			Errant Gauge
	10.18.12		None Observed	22.82	0.0			6094.75
	4.24.13		None Observed	22.28	0.0			6095.29
	10.23.13		None Observed	21.81	0.0			6095.76
	4.21.14		None Observed	21.67	0.0			6095.90
	10.27.14		None Observed	21.94	0.0			6095.63
	4.28.15		None Observed	21.53	0.0			6096.04
	10.20.15		None Observed	21.70	0.0			6095.87
	4.08.16		None Observed	21.33	0.0			6096.24
	10.07.16		None Observed	22.22	0.0			6095.35
	5.17.17		None Observed	21.42	0.0			6096.15
	10.10.17		None Observed	22.07	0.0			6095.50
	5.04.18		None Observed	21.95	0.0			6095.62
	10.04.18		None Observed	22.68	0.0			6094.89
	5.30.19		None Observed	21.86	0.0			6095.71
	12.13.19		None Observed	21.38	0.0			6096.19
	4.28.20		None Observed	22.64	0.0			6094.93
	10.26.20		None Observed	23.70	0.0			6093.87

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-32	1.25.11	6110.22	None Observed	12.67	0.0	20	10-20	6097.55
	4.22.11		None Observed	12.49	0.0			6097.73
	7.27.11		None Observed	13.47	0.0			6096.75
	10.26.11		None Observed	13.56	0.0			6096.66
	1.26.12		None Observed	13.23	0.0			6096.99
	4.18.12		None Observed	13.05	0.0			6097.17
	7.30.12		None Observed	14.10	0.0			6096.12
	10.18.12		None Observed	13.59	0.0			6096.63
	4.23.13		None Observed	13.00	0.0			6097.22
	10.23.13		None Observed	12.64	0.0			6097.58
	4.21.14		None Observed	12.47	0.0			6097.75
	10.27.14		None Observed	12.79	0.0			6097.43
	4.28.15		None Observed	12.19	0.0			6098.03
	10.20.15		None Observed	12.54	0.0			6097.68
	4.08.16		None Observed	12.15	0.0			6098.07
	10.07.16		None Observed	12.10	0.0			6098.12
	5.17.17		None Observed	12.18	0.0			6098.04
	10.10.17[3]		Not Gauged					Not Gauged
	5.04.18		None Observed	12.86	0.0			6097.36
	10.04.18		None Observed	13.53	0.0			6096.69
	5.30.19		None Observed	12.63	0.0			6097.59
	12.13.19		None Observed	13.42	0.0			6096.80
	4.28.20		None Observed	13.31	0.0			6096.91
	10.26.20		None Observed	14.52	0.0			6095.70
MW-33	1.25.11*	6114.02	16.08	16.44	0.36	23.39	13.39-23.39	6097.83
	4.22.11		16.59	16.60	0.01			6097.43
	7.27.11		16.07	16.72	0.65			6097.75
	10.26.11		15.55	16.15	0.60			6098.28
	1.26.12		15.83	15.84	0.01			6098.19
	4.18.12		Not Gauged					Not Gauged
	8.31.12		15.4	17.29	1.89			6098.03
	10.18.12		14.39	17.51	3.12			6098.66
	4.23.13		12.31	12.35	0.04			6101.70
	10.23.13		10.92	14.08	3.16			6102.12
	4.21.14		10.47	10.50	0.03			6103.54
	10.27.14		11.82	12.47	0.65			6102.00
	4.28.15		10.44	11.19	0.75			6103.35
	10.20.15		10.45	11.31	0.86			6103.30
	4.08.16		Monitoring well was removed during remediation October 2015					
MW-34	1.25.11	6115.3	None Observed	17.38	0.0	23.59	18.59-23.59	6097.92
	4.22.11		None Observed	17.20	0.0			6098.10
	7.27.11		None Observed	18.23	0.0			6097.07
	10.26.11		None Observed	18.32	0.0			6096.98
	1.26.12		None Observed	17.98	0.0			6097.32
	4.18.12		None Observed	17.78	0.0			6097.52
	7.30.12		None Observed	17.80	0.0			6097.50
	10.18.12		None Observed	18.32	0.0			6096.98
	4.23.13		None Observed	17.70	0.0			6097.60
	10.23.13		None Observed	16.32	0.0			6098.98
	4.21.14		None Observed	17.12	0.0			6098.18
	10.27.14		None Observed	17.33	0.0			6097.97
	4.28.15		None Observed	16.88	0.0			6098.42
	10.20.15		None Observed	16.88	0.0			6098.42
	4.08.16		None Observed	16.81	0.0			6098.49
	10.07.16		None Observed	17.78	0.0			6097.52
	5.17.17		None Observed	16.83	0.0			6098.47
	10.10.17		None Observed	17.60	0.0			6097.70
	5.04.18		None Observed	17.52	0.0			6097.78
	10.04.18		None Observed	18.16	0.0			6097.14
	5.30.19		None Observed	17.29	0.0			6098.01
	12.13.19		None Observed	18.19	0.0			6097.11
	4.28.20		None Observed	17.96	0.0			6097.34
	10.26.20		None Observed	19.21	0.0			6096.09

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TABLE 9
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GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-35	1.25.11*	6112.22	14.5	14.75	0.3	22.75	12.75-22.75	6097.64
	4.22.11		14.22	14.80	0.58			6097.82
	7.27.11		15.11	16.36	1.25			6096.72
	10.26.11		15.14	16.64	1.50			6096.62
	1.26.12		14.72	14.73	0.01			6097.50
	4.18.12		Not Gauged					Not Gauged
	8.31.12		14.43	17.49	3.06			6096.84
	10.18.12		14.65	17.84	3.19			6096.58
	4.23.13		10.98	13.05	2.07			6100.60
	10.23.13		9.26	12.58	3.72			6102.21
	4.21.14		10.84	11.35	0.51			6101.22
	10.27.14		10.42	10.98	0.56			6101.63
	4.28.15		9.95	10.46	0.51			6102.11
	10.20.15		10.64	11.27	0.63			6101.38
	4.08.16		Monitoring well was removed during remediation October 2015					
MW-36	1.25.11	6111.48	None Observed	13.80	0.0	23.71	12.71-22.71	6097.68
	4.22.11		None Observed	13.65	0.0			6097.83
	7.27.11		None Observed	14.69	0.0			6096.79
	10.26.11		None Observed	14.45	0.0			6097.03
	1.26.12		None Observed	14.41	0.0			6097.07
	4.18.12		None Observed	14.18	0.0			6097.30
	7.30.12		None Observed	14.10	0.0			6097.38
	10.18.12		None Observed	14.76	0.0			6096.72
	4.23.13		None Observed	14.11	0.0			6097.37
	10.23.13		None Observed	13.75	0.0			6097.73
	4.21.14		None Observed	13.58	0.0			6097.90
	10.27.14		None Observed	13.77	0.0			6097.71
	4.28.15		None Observed	13.39	0.0			6098.09
	10.20.15		None Observed	13.65	0.0			6097.83
	4.08.16		None Observed	13.27	0.0			6098.21
	10.07.16		None Observed	14.23	0.0			6097.25
	5.17.17		None Observed	13.30	0.0			6098.18
	10.10.17[3]		Not Gauged					Not Gauged
	5.04.18		Monitoring well was removed during October 2017 excavation					
MW-37	1.25.11	6110.73	Sheen	12.91	Sheen	23.59	11.59-21.59	6097.82
	4.22.11		None Observed	12.78	0.0			6097.95
	7.27.11		13.81	13.84	0.03			6096.91
	10.26.11		13.88	13.92	0.04			6096.84
	1.26.12		13.54	13.54	0.01			6097.20
	4.18.12		Not Gauged					Not Gauged
	7.30.12		Sheen	13.15	Sheen			6097.58
	10.18.12		13.89	13.90	0.01			6096.84
	4.23.13		None Observed	13.23	0.0			6097.50
	10.23.13		None Observed	12.84	0.0			6097.89
	4.21.14		None Observed	12.72	0.0			6098.01
	10.27.14		None Observed	12.85	0.0			6097.88
	4.28.15		None Observed	12.52	0.0			6098.21
	10.20.15		None Observed	12.78	0.0			6097.95
	4.08.16		None Observed	12.41	0.0			6098.32
	10.07.16		None Observed	13.38	0.0			6097.35
	5.17.17		None Observed	12.44	0.0			6098.29
	10.10.17		None Observed	13.04	0.0			6097.69
	5.4.18		Monitoring well was removed during October 2017 excavation					

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Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-38	1.25.11	6110.43	None Observed	12.06	0.0	23.47	10.47-20.47	6098.37
	4.22.11		None Observed	11.87	0.0			6098.56
	7.27.11		None Observed	13.01	0.0			6097.42
	10.26.11		None Observed	13.10	0.0			6097.33
	1.26.12		None Observed	12.68	0.0			6097.75
	4.18.12		None Observed	12.11	0.0			6098.32
	7.30.12		None Observed	12.24	0.0			6098.19
	10.18.12		None Observed	13.01	0.0			6097.42
	4.23.13		None Observed	12.34	0.0			6098.09
	10.23.13		None Observed	11.92	0.0			6098.51
	4.22.13		None Observed	11.80	0.0			6098.63
	4.21.14		None Observed	11.80	0.0			6098.63
	10.27.14		None Observed	11.91	0.0			6098.52
	4.28.15		None Observed	11.55	0.0			6098.88
	10.20.15		None Observed	11.85	0.0			6098.58
	4.08.16		None Observed	11.52	0.0			6098.91
	10.07.16		None Observed	12.79	0.0			6097.64
	5.17.17		None Observed	11.53	0.0			6098.90
	10.10.17		None Observed	12.07	0.0			6098.36
	5.04.18		None Observed	12.21	0.0			6098.22
	10.04.18		None Observed	12.83	0.0			6097.60
	5.30.19		None Observed	12.01	0.0			6098.42
	12.13.19		None Observed	12.91	0.0			6097.52
	4.28.20		None Observed	12.62	0.0			6097.81
	10.26.20		None Observed	13.94	0.0			6096.49
MW-39	1.25.11	6113.7	None Observed	16.21	0.0	20	10-20	6097.49
	4.22.11		None Observed	17.35	0.0			6096.35
	7.27.11		None Observed	16.43	0.0			6097.27
	10.26.11		None Observed	16.52	0.0			6097.18
	1.26.12		None Observed	16.57	0.0			6097.13
	4.18.12		None Observed	16.61	0.0			6097.09
	7.30.12		None Observed	16.69	0.0			6097.01
	10.18.12		None Observed	16.77	0.0			6096.93
	4.23.13		None Observed	16.65	0.0			6097.05
	10.23.13		None Observed	16.25	0.0			6097.45
	4.21.14		None Observed	16.24	0.0			6097.46
	10.29.14		None Observed	16.41	0.0			6097.29
	4.28.15		None Observed	16.11	0.0			6097.59
	10.20.15		None Observed	16.06	0.0			6097.64
	4.08.16		None Observed	15.96	0.0			6097.74
	10.07.16		None Observed	16.21	0.0			6097.49
	5.17.17		None Observed	15.92	0.0			6097.78
	10.10.17		None Observed	16.16	0.0			6097.54
	5.04.18		None Observed	16.24	0.0			6097.46
	10.04.18		None Observed	16.55	0.0			6097.15
	5.30.19		None Observed	16.37	0.0			6097.33
	12.13.19		None Observed	16.72	0.0			6096.98
	4.28.20		None Observed	16.80	0.0			6096.90
	10.26.20		None Observed	16.92	0.0			6096.78
MW-40[2]	1.25.11	6115.69	None Observed	19.16	0.0	20	15	6096.53
	4.22.11		Dry	Dry	Dry			Dry
	7.27.11		Dry	Dry	Dry			Dry
	10.26.11		Dry	Dry	Dry			Dry
	1.26.12		Dry	Dry	Dry			Dry

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-40R	4.18.12	6115.61	None Observed	19.58	0.0	NA	NA	6096.03
	7.30.12		None Observed	19.69	0.0			6095.92
	10.18.12		None Observed	19.96	0.0			6095.65
	4.23.13		None Observed	19.47	0.0			6096.14
	10.23.13		None Observed	19.12	0.0			6096.49
	4.21.14		None Observed	18.85	0.0			6096.76
	10.27.14		None Observed	19.17	0.0			6096.44
	4.28.15		None Observed	18.71	0.0			6096.90
	10.20.15		None Observed	18.93	0.0			6096.68
	4.08.16		None Observed	18.53	0.0			6097.08
	10.07.16		None Observed	19.45	0.0			6096.16
	5.17.17		None Observed	18.59	0.0			6097.02
	10.10.17		None Observed	19.41	0.0			6096.20
	5.04.18		None Observed	19.18	0.0			6096.43
	10.04.18		None Observed	19.96	0.0			6095.65
	5.30.19		None Observed	19.10	0.0			6096.51
	12.13.19		None Observed	19.80	0.0			6095.81
	4.28.20		None Observed	19.82	0.0			6095.79
	10.26.20		None Observed	20.93	0.0			6094.68
MW-41	1.25.11	6112.07	None Observed	14.14	0.0	20	10-20	6097.93
	4.22.11		None Observed	14.18	0.0			6097.89
	7.27.11		None Observed	14.08	0.0			6097.99
	10.26.11		None Observed	14.97	0.0			6097.10
	1.26.12		None Observed	14.20	0.0			6097.87
	4.18.12		None Observed	14.27	0.0			6097.80
	7.30.12		None Observed	14.21	0.0			6097.86
	10.18.12		None Observed	14.18	0.0			6097.89
	4.23.13		None Observed	14.39	0.0			6097.68
	10.23.13		None Observed	14.23	0.0			6097.84
	4.21.14		None Observed	14.26	0.0			6097.81
	10.27.14		None Observed	14.06	0.0			6098.01
	4.28.15		None Observed	14.09	0.0			6097.98
	10.20.15		None Observed	13.86	0.0			6098.21
	4.08.16		None Observed	13.88	0.0			6098.19
	10.07.16		None Observed	13.72	0.0			6098.35
	5.17.17		None Observed	13.62	0.0			6098.45
	10.10.17		None Observed	13.39	0.0			6098.68
	5.04.18		None Observed	13.53	0.0			6098.54
	10.04.18		None Observed	13.43	0.0			6098.64
	5.30.19		None Observed	13.56	0.0			6098.51
	12.13.19		None Observed	13.55	0.0			6098.52
	4.28.20		None Observed	13.78	0.0			6098.29
	10.26.20		None Observed	13.69	0.0			6098.38
MW-42	1.25.11	6121.53	None Observed	24.88	0.0	28.50	10.50-20.50	6096.65
	4.22.11**		None Observed	Errant Gauge	0.0			Errant Gauge
	7.27.11		None Observed	Dry	0.0			Dry
	10.26.11		None Observed	25.16	0.0			6096.37
	1.26.12		None Observed	24.92	0.0			6096.61
	4.18.12		Not Gauged					Not Gauged
	7.30.12		Dry	Dry	Dry			Dry
	10.18.12		Dry	Dry	Dry			Dry
	4.23.13		Dry	Dry	Dry			Dry
	10.23.13		Dry	Dry	Dry			Dry
	4.21.14		None Observed	25.02	0.0			6096.51
	10.27.14		None Observed	25.35	0.0			6096.18
	4.28.15		Dry	Dry	Dry			Dry
	10.20.15		None Observed	25.19	0.0			6096.34
	4.08.16***		None Observed	24.79	0.0			6096.74
	10.07.16		Dry	Dry	Dry			Dry
	5.17.17***		None Observed	24.49	0.0			6097.04
	10.10.17***		None Observed	24.82	0.0			6096.71
	5.04.18		None Observed	24.49	0.0			6097.04
	10.04.18		None Observed	24.82	0.0			6096.71
	5.30.19		None Observed	24.48	0.0			6097.05
	12.13.19		Not Gauged					Not Gauged
	4.28.20		Not Gauged					Not Gauged
	10.26.20		Not Gauged					Not Gauged

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-43	1.25.11	6112.92	None Observed	15.41	0.0	23.39	13.39-23.39	6097.51
	4.22.11		None Observed	15.30	0.0			6097.62
	7.27.11		None Observed	16.27	0.0			6096.65
	10.26.11		None Observed	16.35	0.0			6096.57
	1.26.12		None Observed	16.05	0.0			6096.87
	4.18.12		None Observed	15.87	0.0			6097.05
	7.30.12		None Observed	15.82	0.0			6097.10
	10.18.12		None Observed	16.35	0.0			6096.57
	4.23.13		None Observed	15.79	0.0			6097.13
	10.23.13		None Observed	15.33	0.0			6097.59
	4.21.14		None Observed	15.19	0.0			6097.73
	10.27.14		None Observed	15.42	0.0			6097.50
	4.28.15		None Observed	15.01	0.0			6097.91
	10.20.15		None Observed	15.28	0.0			6097.64
	4.08.16		None Observed	14.92	0.0			6098.00
	10.07.16		None Observed	15.84	0.0			6097.08
	5.17.17		None Observed	14.94	0.0			6097.98
	10.10.17		None Observed	15.64	0.0			6097.28
	5.04.18		None Observed	15.61	0.0			6097.31
	10.04.18		None Observed	16.25	0.0			6096.67
	5.30.19		None Observed	15.41	0.0			6097.51
	12.13.19		None Observed	16.12	0.0			6096.80
	4.28.20		None Observed	16.08	0.0			6096.84
	10.26.20		None Observed	17.27	0.0			6095.65
MW-47	1.25.11	6114.41	None Observed	19.22	0.0	23	13-23	6095.19
	4.22.11		None Observed	19.02	0.0			6095.39
	7.27.11		None Observed	19.69	0.0			6094.72
	10.26.11		None Observed	19.86	0.0			6094.55
	1.26.12		None Observed	19.79	0.0			6094.62
	4.19.12		None Observed	19.67	0.0			6094.74
	7.31.12		None Observed	19.87	0.0			6094.54
	10.18.12		None Observed	20.08	0.0			6094.33
	4.24.13		None Observed	19.65	0.0			6094.76
	10.23.13		None Observed	19.38	0.0			6095.03
	4.21.14		None Observed	19.06	0.0			6095.35
	10.27.14		None Observed	19.37	0.0			6095.04
	4.28.15		None Observed	18.95	0.0			6095.46
	10.20.15		None Observed	19.15	0.0			6095.26
	4.08.16		Well Damaged in 2016					
MW-48	4.18.12	6109.21	None Observed			23.98	13.98-23.98	Not Gauged
	7.30.12		None Observed	11.90	0.0			6097.31
	10.18.12		None Observed	12.26	0.0			6096.95
	4.23.13		None Observed	11.60	0.0			6097.61
	10.23.13		None Observed	11.18	0.0			6098.03
	4.21.14		None Observed	11.06	0.0			6098.15
	10.27.14		None Observed	11.19	0.0			6098.02
	4.28.15		None Observed	10.85	0.0			6098.36
	10.20.15		None Observed	11.09	0.0			6098.12
	4.08.16		None Observed	10.75	0.0			6098.46
	10.07.16		None Observed	11.74	0.0			6097.47
	5.17.17		None Observed	10.79	0.0			6098.42
	10.10.17		None Observed	11.33	0.0			6097.88
	5.04.18		None Observed	11.47	0.0			6097.74
	10.04.18		None Observed	12.09	0.0			6097.12
	5.30.19		None Observed	11.57	0.0			6097.64
	12.13.19[6]		None Observed	11.93	0.0			6097.28
	4.28.20[6]		None Observed	11.68	0.0			6097.53
	10.26.20[6]		None Observed	12.98	0.0			6096.23

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-49	4.18.12	6109.54	None Observed	12.38	0.0	19.94	9.94-19.94	6097.16
	7.30.12		None Observed	12.22	0.0			6097.32
	10.18.12		None Observed	12.92	0.0			6096.62
	4.23.13**		None Observed	Errant Gauge	0.0			Errant Gauge
	10.23.13		None Observed	11.87	0.0			6097.67
	4.21.14		None Observed	11.77	0.0			6097.77
	10.27.14		None Observed	11.89	0.0			6097.65
	4.28.15		None Observed	11.54	0.0			6098.00
	10.20.15		None Observed	11.81	0.0			6097.73
	4.08.16		None Observed	11.45	0.0			6098.09
	10.20.16		None Observed	12.45	0.0			6097.09
	5.17.17		None Observed	11.51	0.0			6098.03
	10.10.17		None Observed	12.09	0.0			6097.45
	5.04.18		None Observed	12.18	0.0			6097.36
	10.04.18		None Observed	12.83	0.0			6096.71
	5.30.19		None Observed	12.09	0.0			6097.45
	12.13.19[6]		None Observed	12.80	0.0			6096.74
	4.28.20[6]		None Observed	12.65	0.0			6096.89
	10.26.20[6]		Dry					Dry
MW-50	4.18.12	6120.62	None Observed	24.64	0.0	31.08	21.08-31.08	6095.98
	7.30.12		None Observed	24.93	0.0			6095.69
	10.18.12		None Observed	25.11	0.0			6095.51
	4.23.13		None Observed	24.57	0.0			6096.05
	10.23.13		None Observed	24.21	0.0			6096.41
	4.21.14		None Observed	23.91	0.0			6096.71
	10.27.14		None Observed	24.36	0.0			6096.26
	4.28.15		None Observed	23.86	0.0			6096.76
	10.20.15		None Observed	24.04	0.0			6096.58
	4.08.16		None Observed	23.58	0.0			6097.04
	10.07.16		None Observed	24.52	0.0			6096.10
	5.17.17		None Observed	23.68	0.0			6096.94
	10.10.17		None Observed	24.54	0.0			6096.08
	5.04.18		None Observed	24.24	0.0			6096.38
	10.04.18		None Observed	25.09	0.0			6095.53
	5.30.19		None Observed	24.23	0.0			6096.39
	12.13.19		None Observed	25.02	0.0			6095.60
	4.28.20		None Observed	24.97	0.0			6095.65
	10.26.20		None Observed	26.05	0.0			6094.57
MW-51	4.18.12	6113.50	None Observed	18.33	0.0	28	18-28	6095.17
	7.30.12		None Observed	17.47	0.0			6096.03
	10.18.12		None Observed	17.81	0.0			6095.69
	04.23.13		None Observed	17.35	0.0			6096.15
	10.23.13		None Observed	16.84	0.0			6096.66
	4.21.14		None Observed	16.68	0.0			6096.82
	10.27.14		None Observed	17.08	0.0			6096.42
	4.28.15		None Observed	16.61	0.0			6096.89
	10.20.15		None Observed	16.78	0.0			6096.72
	4.08.16		None Observed	16.36	0.0			6097.14
	10.07.16		None Observed	17.33	0.0			6096.17
	5.17.17		None Observed	16.43	0.0			6097.07
	10.10.17		None Observed	17.25	0.0			6096.25
	5.04.18		None Observed	17.04	0.0			6096.46
	10.04.18		None Observed	17.81	0.0			6095.69
	5.30.19		None Observed	16.91	0.0			6096.59
	12.13.19		None Observed	17.62	0.0			6095.88
	4.28.20		None Observed	17.64	0.0			6095.86
	10.26.20		None Observed	18.79	0.0			6094.71

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Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-52	4.18.12	6118.98	None Observed	21.11	0.0	27.67	17.67-21.67	6097.87
	7.30.12		None Observed	21.10	0.0			6097.88
	10.18.12		None Observed	21.08	0.0			6097.90
	4.23.13		None Observed	21.25	0.0			6097.73
	10.23.13		None Observed	21.02	0.0			6097.96
	4.21.14		None Observed	21.01	0.0			6097.97
	10.27.14		None Observed	20.91	0.0			6098.07
	4.28.15		None Observed	20.86	0.0			6098.12
	10.20.15		None Observed	20.62	0.0			6098.36
	4.08.16		None Observed	20.66	0.0			6098.32
	10.07.16		None Observed	20.60	0.0			6098.38
	5.17.17		None Observed	20.48	0.0			6098.50
	10.10.17		None Observed	20.42	0.0			6098.56
	5.04.18		None Observed	20.69	0.0			6098.29
	10.04.18		None Observed	20.74	0.0			6098.24
	5.30.19		None Observed	20.75	0.0			6098.23
	12.13.19		None Observed	20.78	0.0			6098.20
	4.28.20		None Observed	21.00	0.0			6097.98
	10.26.20		None Observed	20.95	0.0			6098.03
MW-53	5.3.13	6109.41	None Observed	12.16	0.0	18.27	7.77-17.77	6097.25
	10.23.13		None Observed	11.72	0.0			6097.69
	4.21.14		None Observed	11.58	0.0			6097.83
	10.27.14		None Observed	11.73	0.0			6097.68
	4.28.15		None Observed	11.40	0.0			6098.01
	10.20.15		None Observed	11.66	0.0			6097.75
	4.08.16		None Observed	11.26	0.0			6098.15
	10.07.16		None Observed	12.27	0.0			6097.14
	5.17.17		None Observed	11.33	0.0			6098.08
	10.10.17		None Observed	12.00	0.0			6097.41
	5.04.18		None Observed	12.09	0.0			6097.32
	10.04.18		None Observed	12.71	0.0			6096.70
	5.30.19		None Observed	11.85	0.0			6097.56
	12.13.19		None Observed	12.70	0.0			6096.71
	4.28.20		None Observed	12.43	0.0			6096.98
	10.26.20		None Observed	13.70	0.0			6095.71
MW-54	5.3.13	6107.62	None Observed	10.29	0.0	18.45	7.21-17.21	6097.33
	10.23.13		None Observed	9.82	0.0			6097.80
	4.21.14		None Observed	9.79	0.0			6097.83
	10.27.14		None Observed	9.80	0.0			6097.82
	4.28.15		None Observed	9.51	0.0			6098.11
	10.20.15		None Observed	9.70	0.0			6097.92
	4.08.16		None Observed	9.40	0.0			6098.22
	10.20.16		None Observed	10.30	0.0			6097.32
	5.17.17		None Observed	9.41	0.0			6098.21
	10.10.17		None Observed	9.97	0.0			6097.65
	5.04.18		None Observed	10.13	0.0			6097.49
	10.04.18		None Observed	10.78	0.0			6096.84
	5.30.19		None Observed	10.03	0.0			6097.59
	12.13.19		None Observed	10.85	0.0			6096.77
	4.28.20		None Observed	10.58	0.0			6097.04
	10.26.20		None Observed	11.96	0.0			6095.66

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-55	5.3.13	6107.53	None Observed	9.82	0.0	18.27	7.27-17.27	6097.71
	10.23.13		None Observed	9.45	0.0			6098.08
	4.21.14		None Observed	9.21	0.0			6098.32
	10.27.14		None Observed	9.08	0.0			6098.45
	4.28.15		None Observed	9.01	0.0			6098.52
	10.20.15		None Observed	9.11	0.0			6098.42
	4.08.16		None Observed	9.06	0.0			6098.47
	10.07.16		None Observed	9.51	0.0			6098.02
	5.17.17		Blockage	Blockage	Blockage			Blockage
	10.10.17		Blockage	Blockage	Blockage			Blockage
	5.04.18		Blockage	12.05	Blockage			Blockage
	10.04.18		Blockage	Blockage	Blockage			Blockage
	5.30.19		None Observed	10.31	0.0			6097.22
	12.13.19		None Observed	11.43	0.0			6096.10
	4.28.20		Not Gauged					Not Gauged
	10.26.20		Not Gauged					Not Gauged
MW-75	4.23.13	6116.28	None Observed	18.98	0.0	27.25	12.25-27.25	6097.30
	10.23.13		None Observed	18.67	0.0			6097.61
	4.21.14		None Observed	18.35	0.0			6097.93
	10.27.14		None Observed	18.64	0.0			6097.64
	4.28.15		None Observed	18.18	0.0			6098.10
	10.20.15		None Observed	18.49	0.0			6097.79
	4.08.16		None Observed	18.07	0.0			6098.21
	10.07.16		None Observed	19.03	0.0			6097.25
	5.17.17		None Observed	18.10	0.0			6098.18
	10.10.17		None Observed	18.96	0.0			6097.32
	5.04.18		None Observed	18.79	0.0			6097.49
	10.04.18		None Observed	19.48	0.0			6096.80
	5.30.19		None Observed	18.59	0.0			6097.69
	12.13.19		None Observed	19.57	0.0			6096.71
	4.28.20		None Observed	19.30	0.0			6096.98
	10.26.20		None Observed	20.42	0.0			6095.86
MW-76	10.23.13	6123.36	None Observed	25.33	0.0	30.28	15.28-30.28	6098.03
	4.21.14		None Observed	24.73	0.0			6098.63
	10.27.14		None Observed	25.20	0.0			6098.16
	4.28.15		None Observed	24.54	0.0			6098.82
	10.20.15		None Observed	25.03	0.0			6098.33
	4.08.16		None Observed	24.45	0.0			6098.91
	10.07.16		None Observed	25.40	0.0			6097.96
	5.17.17		None Observed	24.51	0.0			6098.85
	10.10.17		None Observed	25.54	0.0			6097.82
	5.04.18		None Observed	25.10	0.0			6098.26
	10.04.18		None Observed	25.86	0.0			6097.50
	5.30.19		None Observed	24.88	0.0			6098.48
	12.13.19		None Observed	25.94	0.0			6097.42
	4.28.20		None Observed	25.59	0.0			6097.77
	10.26.20		None Observed	26.69	0.0			6096.67
MW-77	10.23.13	6130.97	None Observed	33.13	0.0	37.08	22.08-37.08	6097.84
	4.21.14		None Observed	32.53	0.0			6098.44
	10.27.14		None Observed	32.98	0.0			6097.99
	4.28.15		None Observed	32.37	0.0			6098.60
	10.20.15		None Observed	32.82	0.0			6098.15
	4.08.16		None Observed	32.26	0.0			6098.71
	10.07.16		None Observed	33.19	0.0			6097.78
	5.17.17		None Observed	32.32	0.0			6098.65
	10.10.17		None Observed	33.35	0.0			6097.62
	5.04.18		None Observed	32.91	0.0			6098.06
	10.04.18		None Observed	33.65	0.0			6097.32
	5.30.19		None Observed	32.69	0.0			6098.28
	12.13.19		None Observed	33.77	0.0			6097.20
	4.28.20		None Observed	33.40	0.0			6097.57
	10.26.20		None Observed	34.49	0.0			6096.48

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-79	10.23.13	6127.81	None Observed	30.46	0.0	37.47	22.47-37.47	6097.35
	4.21.14		None Observed	30.05	0.0			6097.76
	10.27.14		None Observed	30.34	0.0			6097.47
	4.28.15		None Observed	29.91	0.0			6097.90
	10.20.15		None Observed	30.15	0.0			6097.66
	4.08.16		None Observed	29.69	0.0			6098.12
	10.07.16		None Observed	30.61	0.0			6097.20
	5.17.17		None Observed	29.71	0.0			6098.10
	10.10.17		None Observed	30.80	0.0			6097.01
	5.04.18		None Observed	30.74	0.0			6097.07
	10.04.18		None Observed	31.01	0.0			6096.80
	5.30.19		None Observed	30.18	0.0			6097.63
	12.13.19		None Observed	31.24	0.0			6096.57
	4.28.20		None Observed	30.91	0.0			6096.90
	10.26.20		None Observed	31.80	0.0			6096.01
MW-80	10.23.13	6124.39	None Observed	26.58	0.0	32.63	17.63-32.63	6097.81
	4.21.14		None Observed	26.12	0.0			6098.27
	10.27.14		None Observed	26.47	0.0			6097.92
	4.28.15		None Observed	25.91	0.0			6098.48
	4.08.16		None Observed	25.80	0.0			6098.59
	10.07.16		None Observed	26.72	0.0			6097.67
	5.17.17		None Observed	25.85	0.0			6098.54
	10.10.17		None Observed	26.86	0.0			6097.53
	5.04.18		None Observed	26.46	0.0			6097.93
	10.04.18		None Observed	27.19	0.0			6097.20
	5.30.19		None Observed	26.23	0.0			6098.16
	12.13.19		None Observed	27.31	0.0			6097.08
	4.28.20		None Observed	26.99	0.0			6097.40
	10.26.20		None Observed	28.08	0.0			6096.31
MW-83	10.23.13	6116.86	None Observed	18.91	0.0	22.94	12.94-22.94	6097.95
	4.21.14		None Observed	18.30	0.0			6098.56
	10.27.14		None Observed	18.79	0.0			6098.07
	4.28.15		None Observed	18.14	0.0			6098.72
	4.08.16		None Observed	18.04	0.0			6098.82
	10.07.16		None Observed	18.96	0.0			6097.90
	5.17.17		None Observed	18.10	0.0			6098.76
	10.10.17		None Observed	19.13	0.0			6097.73
	5.04.18		None Observed	18.69	0.0			6098.17
	10.04.18		None Observed	19.41	0.0			6097.45
	5.30.19		None Observed	18.46	0.0			6098.40
	12.13.19		None Observed	19.54	0.0			6097.32
	4.28.20		None Observed	19.20	0.0			6097.66
	10.26.20		None Observed	20.24	0.0			6096.62
MW-88	10.27.14	6118.65	None Observed	24.16	0.0	27.93	17.93-27.93	6094.49
	4.28.15		None Observed	23.71	0.0			6094.94
	10.20.15		None Observed	23.94	0.0			6094.71
	4.08.16		None Observed	23.49	0.0			6095.16
	10.07.16		None Observed	24.37	0.0			6094.28
	5.17.17		None Observed	23.60	0.0			6095.05
	10.10.17		None Observed	24.38	0.0			6094.27
	5.04.18		None Observed	24.09	0.0			6094.56
	10.04.18		None Observed	24.70	0.0			6093.95
	5.30.19		None Observed	24.05	0.0			6094.60
	12.13.19		None Observed	24.66	0.0			6093.99
	4.28.20		None Observed	24.80	0.0			6093.85
	10.26.20		None Observed	25.80	0.0			6092.85

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TABLE 9
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Total Depth of Well Below Top of Casing (feet)	Screen Interval Below Top of Casing (feet)	Corrected Groundwater Elevation[1] (feet)
MW-89	10.27.14	6118.31	None Observed	23.83	0.0	28.98	17.98-27.98	6094.48
	4.28.15		None Observed	23.44	0.0			6094.87
	10.20.15		None Observed	23.61	0.0			6094.70
	4.08.16		None Observed	23.26	0.0			6095.05
	10.07.16		None Observed	24.19	0.0			6094.12
	5.17.17		None Observed	23.35	0.0			6094.96
	10.10.17		None Observed	23.96	0.0			6094.35
	5.04.18		None Observed	23.91	0.0			6094.40
	10.04.18		None Observed	24.67	0.0			6093.64
	5.30.19		None Observed	23.80	0.0			6094.51
	12.13.19		None Observed	24.00	0.0			6094.31
	4.28.20		None Observed	25.55	0.0			6092.76
	10.26.20		None Observed	25.69	0.0			6092.62
MW-90	10.27.14	6117.82	None Observed	23.09	0.0	28.15	18.15-28.15	6094.73
	4.28.15		None Observed	22.73	0.0			6095.09
	10.20.15		None Observed	22.90	0.0			6094.92
	4.08.16		None Observed	22.57	0.0			6095.25
	10.07.16		None Observed	23.45	0.0			6094.37
	5.17.17		None Observed	22.64	0.0			6095.18
	10.10.17		None Observed	23.21	0.0			6094.61
	5.04.18		None Observed	23.20	0.0			6094.62
	10.04.18		None Observed	23.93	0.0			6093.89
	5.30.19		None Observed	23.08	0.0			6094.74
	12.13.19		None Observed	23.43	0.0			6094.39
	4.28.20		None Observed	23.83	0.0			6093.99
	10.26.20		Dry					Dry

NA - Not Available

* - Regauged 1.31.11 to confirm product thickness

** - Aberrant gauging data

*** - Well effectively dry

1 - On 11/02/2012, this table was adjusted to reflect July 2012 re-survey and a specific gravity of 0.69 for NAPL

2 - Monitoring well MW-40 was replaced by MW-40R

3 - Monitoring well was inaccessible due to 2017 excavation and therefore was not gauged.

4 - Monitoring well MW-55 silted in.

5 - Air sparge system was running during the sampling event resulting in an inaccurate gauge.

6 - Surface completion of the monitoring well was damaged during the Area 3 excavation activities but was repaired during the end of remediation activties in 2019.

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APPENDIX F1

Site Characterization
Laboratory Data Sheets
& Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 21, 2017

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

RE: Largo CS OrderNo.: 1706502

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 35 sample(s) on 6/9/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-97 @ 14'-16'
Project: Largo CS
Collection Date: 6/5/2017 2:15:00 PM
Lab ID: 1706502-001 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 2:49:43 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/13/2017 12:28:31 AM	32210
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 12:28:31 AM	32210
Surr: DNOP	97.8	70-130		%Rec	1	6/13/2017 12:28:31 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2017 12:34:54 PM	32208
Surr: BFB	102	54-150		%Rec	1	6/12/2017 12:34:54 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 12:34:54 PM	32208
Toluene	ND	0.049		mg/Kg	1	6/12/2017 12:34:54 PM	32208
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2017 12:34:54 PM	32208
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2017 12:34:54 PM	32208
Surr: 4-Bromofluorobenzene	131	66.6-132		%Rec	1	6/12/2017 12:34:54 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-97 @ 19'-20'
Project: Largo CS
Collection Date: 6/5/2017 2:30:00 PM
Lab ID: 1706502-002 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 3:26:56 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2017 12:57:07 AM	32210
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2017 12:57:07 AM	32210
Surr: DNOP	92.6	70-130		%Rec	1	6/13/2017 12:57:07 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2017 1:47:00 PM	32208
Surr: BFB	104	54-150		%Rec	1	6/12/2017 1:47:00 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 1:47:00 PM	32208
Toluene	ND	0.049		mg/Kg	1	6/12/2017 1:47:00 PM	32208
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2017 1:47:00 PM	32208
Xylenes, Total	ND	0.098		mg/Kg	1	6/12/2017 1:47:00 PM	32208
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	1	6/12/2017 1:47:00 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-98 @ 16'-18'
Project: Largo CS
Collection Date: 6/5/2017 3:15:00 PM
Lab ID: 1706502-003 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 3:39:20 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	25	9.4		mg/Kg	1	6/13/2017 1:25:57 AM	32210
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 1:25:57 AM	32210
Surr: DNOP	92.1	70-130		%Rec	1	6/13/2017 1:25:57 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	230	48		mg/Kg	10	6/12/2017 10:11:12 AM	32208
Surr: BFB	180	54-150	S	%Rec	10	6/12/2017 10:11:12 AM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.35	0.24		mg/Kg	10	6/12/2017 10:11:12 AM	32208
Toluene	ND	0.48		mg/Kg	10	6/12/2017 10:11:12 AM	32208
Ethylbenzene	0.55	0.48		mg/Kg	10	6/12/2017 10:11:12 AM	32208
Xylenes, Total	8.1	0.96		mg/Kg	10	6/12/2017 10:11:12 AM	32208
Surr: 4-Bromofluorobenzene	141	66.6-132	S	%Rec	10	6/12/2017 10:11:12 AM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-98 @ 19'-20'
Project: Largo CS
Collection Date: 6/5/2017 3:30:00 PM
Lab ID: 1706502-004 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	ND	30		mg/Kg	20	6/14/2017 3:51:44 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2017 2:23:26 AM	32210
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2017 2:23:26 AM	32210
Surr: DNOP	90.7	70-130		%Rec	1	6/13/2017 2:23:26 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2017 3:02:19 PM	32208
Surr: BFB	97.0	54-150		%Rec	1	6/12/2017 3:02:19 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2017 3:02:19 PM	32208
Toluene	ND	0.049		mg/Kg	1	6/12/2017 3:02:19 PM	32208
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2017 3:02:19 PM	32208
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2017 3:02:19 PM	32208
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/12/2017 3:02:19 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-101 @ 9'-10'
Project: Largo CS
Collection Date: 6/7/2017 12:00:00 PM
Lab ID: 1706502-005 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	38	30		mg/Kg	20	6/14/2017 4:04:09 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/13/2017 2:52:13 AM	32210
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 2:52:13 AM	32210
Surr: DNOP	89.3	70-130		%Rec	1	6/13/2017 2:52:13 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/12/2017 3:26:28 PM	32208
Surr: BFB	98.6	54-150		%Rec	1	6/12/2017 3:26:28 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2017 3:26:28 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 3:26:28 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 3:26:28 PM	32208
Xylenes, Total	ND	0.095		mg/Kg	1	6/12/2017 3:26:28 PM	32208
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	1	6/12/2017 3:26:28 PM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-101 @ 11'-12'
Project: Largo CS
Collection Date: 6/7/2017 12:10:00 PM
Lab ID: 1706502-006 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	ND	30		mg/Kg	20	6/14/2017 4:16:34 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/13/2017 3:20:33 AM	32210
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 3:20:33 AM	32210
Surr: DNOP	82.0	70-130		%Rec	1	6/13/2017 3:20:33 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2017 3:50:33 PM	32208
Surr: BFB	97.9	54-150		%Rec	1	6/12/2017 3:50:33 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2017 3:50:33 PM	32208
Toluene	ND	0.049		mg/Kg	1	6/12/2017 3:50:33 PM	32208
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2017 3:50:33 PM	32208
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2017 3:50:33 PM	32208
Surr: 4-Bromofluorobenzene	124	66.6-132		%Rec	1	6/12/2017 3:50:33 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-102 @ 8'-9'
Project: Largo CS
Collection Date: 6/7/2017 10:00:00 AM
Lab ID: 1706502-007 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE						Analyst: **DJF**	
Percent Moisture	26	1.0		wt%	1	6/13/2017	R43483
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	65	30		mg/Kg	20	6/15/2017 10:00:18 AM	32305
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Iron	22000	240		mg/Kg	100	6/15/2017 11:57:11 AM	32273
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	6/13/2017 3:49:27 AM	32210
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/13/2017 3:49:27 AM	32210
Surr: DNOP	92.1	70-130		%Rec	1	6/13/2017 3:49:27 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	570	47		mg/Kg	10	6/12/2017 10:35:04 AM	32208
Surr: BFB	218	54-150	S	%Rec	10	6/12/2017 10:35:04 AM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.47	0.23		mg/Kg	10	6/12/2017 10:35:04 AM	32208
Toluene	5.7	0.47		mg/Kg	10	6/12/2017 10:35:04 AM	32208
Ethylbenzene	1.5	0.47		mg/Kg	10	6/12/2017 10:35:04 AM	32208
Xylenes, Total	15	0.94		mg/Kg	10	6/12/2017 10:35:04 AM	32208
Surr: 4-Bromofluorobenzene	141	66.6-132	S	%Rec	10	6/12/2017 10:35:04 AM	32208
SM4500-H+B: PH						Analyst: **JRR**	
pH	8.18			pH Units	1	6/16/2017 1:51:00 PM	R43572

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-102 @ 12'-13'
Project: Largo CS
Collection Date: 6/7/2017 10:20:00 AM
Lab ID: 1706502-008 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	ND	30		mg/Kg	20	6/14/2017 4:28:58 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/13/2017 4:17:48 AM	32210
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 4:17:48 AM	32210
Surr: DNOP	91.4	70-130		%Rec	1	6/13/2017 4:17:48 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	39	4.7		mg/Kg	1	6/12/2017 4:14:42 PM	32208
Surr: BFB	203	54-150	S	%Rec	1	6/12/2017 4:14:42 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2017 4:14:42 PM	32208
Toluene	0.18	0.047		mg/Kg	1	6/12/2017 4:14:42 PM	32208
Ethylbenzene	0.094	0.047		mg/Kg	1	6/12/2017 4:14:42 PM	32208
Xylenes, Total	0.80	0.094		mg/Kg	1	6/12/2017 4:14:42 PM	32208
Surr: 4-Bromofluorobenzene	131	66.6-132		%Rec	1	6/12/2017 4:14:42 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-103 @ 7'-8'
Project: Largo CS
Collection Date: 6/7/2017 9:30:00 AM
Lab ID: 1706502-009 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	ND	30		mg/Kg	20	6/14/2017 5:06:13 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	10	9.9		mg/Kg	1	6/13/2017 4:46:21 AM	32210
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 4:46:21 AM	32210
Surr: DNOP	91.7	70-130		%Rec	1	6/13/2017 4:46:21 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2017 7:27:21 PM	32208
Surr: BFB	94.7	54-150		%Rec	1	6/12/2017 7:27:21 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/12/2017 7:27:21 PM	32208
Toluene	ND	0.048		mg/Kg	1	6/12/2017 7:27:21 PM	32208
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2017 7:27:21 PM	32208
Xylenes, Total	ND	0.095		mg/Kg	1	6/12/2017 7:27:21 PM	32208
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	6/12/2017 7:27:21 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-103 @ 11'-12'
Project: Largo CS
Collection Date: 6/7/2017 9:50:00 AM
Lab ID: 1706502-010 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	58	30		mg/Kg	20	6/14/2017 5:18:38 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/13/2017 5:14:45 AM	32210
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 5:14:45 AM	32210
Surr: DNOP	91.5	70-130		%Rec	1	6/13/2017 5:14:45 AM	32210
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/12/2017 7:51:19 PM	32208
Surr: BFB	98.2	54-150		%Rec	1	6/12/2017 7:51:19 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	6/12/2017 7:51:19 PM	32208
Toluene	ND	0.049		mg/Kg	1	6/12/2017 7:51:19 PM	32208
Ethylbenzene	ND	0.049		mg/Kg	1	6/12/2017 7:51:19 PM	32208
Xylenes, Total	ND	0.099		mg/Kg	1	6/12/2017 7:51:19 PM	32208
Surr: 4-Bromofluorobenzene	127	66.6-132		%Rec	1	6/12/2017 7:51:19 PM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-91 @19'-20'
Project: Largo CS
Collection Date: 6/6/2017 8:35:00 AM
Lab ID: 1706502-011 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 5:31:02 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/13/2017 1:12:35 PM	32214
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2017 1:12:35 PM	32214
Surr: DNOP	107	70-130		%Rec	1	6/13/2017 1:12:35 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2017 8:15:14 PM	32208
Surr: BFB	95.2	54-150		%Rec	1	6/12/2017 8:15:14 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 8:15:14 PM	32208
Toluene	ND	0.048		mg/Kg	1	6/12/2017 8:15:14 PM	32208
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2017 8:15:14 PM	32208
Xylenes, Total	ND	0.097		mg/Kg	1	6/12/2017 8:15:14 PM	32208
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/12/2017 8:15:14 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-92 @12'-15'
Project: Largo CS
Collection Date: 6/6/2017 9:15:00 AM
Lab ID: 1706502-012
Matrix: SOIL
Received Date: 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LGT**
Chloride	48	30		mg/Kg	20	6/14/2017 5:43:27 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	670	9.6		mg/Kg	1	6/13/2017 3:11:30 PM	32214
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	6/13/2017 3:11:30 PM	32214
Surr: DNOP	98.3	70-130		%Rec	1	6/13/2017 3:11:30 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	11000	990		mg/Kg	200	6/12/2017 8:39:08 PM	32208
Surr: BFB	162	54-150	S	%Rec	200	6/12/2017 8:39:08 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	14	0.50		mg/Kg	20	6/12/2017 10:59:04 AM	32208
Toluene	180	9.9		mg/Kg	200	6/12/2017 8:39:08 PM	32208
Ethylbenzene	41	0.99		mg/Kg	20	6/12/2017 10:59:04 AM	32208
Xylenes, Total	360	20		mg/Kg	200	6/12/2017 8:39:08 PM	32208
Surr: 4-Bromofluorobenzene	191	66.6-132	S	%Rec	20	6/12/2017 10:59:04 AM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-92 @19'-20'
Project: Largo CS
Collection Date: 6/6/2017 9:20:00 AM
Lab ID: 1706502-013 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 5:55:51 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/13/2017 3:36:26 PM	32214
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2017 3:36:26 PM	32214
Surr: DNOP	96.1	70-130		%Rec	1	6/13/2017 3:36:26 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	4.7	4.7		mg/Kg	1	6/12/2017 9:03:09 PM	32208
Surr: BFB	97.2	54-150		%Rec	1	6/12/2017 9:03:09 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/12/2017 9:03:09 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 9:03:09 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 9:03:09 PM	32208
Xylenes, Total	ND	0.094		mg/Kg	1	6/12/2017 9:03:09 PM	32208
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	1	6/12/2017 9:03:09 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-93 @18'-20'
Project: Largo CS
Collection Date: 6/6/2017 3:40:00 PM
Lab ID: 1706502-014 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/14/2017 6:08:16 PM	32285
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/13/2017 4:01:16 PM	32214
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2017 4:01:16 PM	32214
Surr: DNOP	102	70-130		%Rec	1	6/13/2017 4:01:16 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/12/2017 9:27:00 PM	32208
Surr: BFB	100	54-150		%Rec	1	6/12/2017 9:27:00 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/12/2017 9:27:00 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 9:27:00 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 9:27:00 PM	32208
Xylenes, Total	ND	0.094		mg/Kg	1	6/12/2017 9:27:00 PM	32208
Surr: 4-Bromofluorobenzene	128	66.6-132		%Rec	1	6/12/2017 9:27:00 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-94 @18'-19'
Project: Largo CS
Collection Date: 6/7/2017 8:15:00 AM
Lab ID: 1706502-015 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 10:12:43 AM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/13/2017 4:26:09 PM	32214
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 4:26:09 PM	32214
Surr: DNOP	105	70-130		%Rec	1	6/13/2017 4:26:09 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/12/2017 9:50:57 PM	32208
Surr: BFB	98.1	54-150		%Rec	1	6/12/2017 9:50:57 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/12/2017 9:50:57 PM	32208
Toluene	ND	0.046		mg/Kg	1	6/12/2017 9:50:57 PM	32208
Ethylbenzene	ND	0.046		mg/Kg	1	6/12/2017 9:50:57 PM	32208
Xylenes, Total	ND	0.093		mg/Kg	1	6/12/2017 9:50:57 PM	32208
Surr: 4-Bromofluorobenzene	124	66.6-132		%Rec	1	6/12/2017 9:50:57 PM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-94 @19'-20'
Project: Largo CS
Collection Date: 6/7/2017 8:20:00 AM
Lab ID: 1706502-016 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 10:25:08 AM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/13/2017 5:15:37 PM	32214
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2017 5:15:37 PM	32214
Surr: DNOP	103	70-130		%Rec	1	6/13/2017 5:15:37 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/12/2017 10:14:46 PM	32208
Surr: BFB	97.3	54-150		%Rec	1	6/12/2017 10:14:46 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 10:14:46 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 10:14:46 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 10:14:46 PM	32208
Xylenes, Total	ND	0.095		mg/Kg	1	6/12/2017 10:14:46 PM	32208
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	1	6/12/2017 10:14:46 PM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-95 @18'-19'
Project: Largo CS
Collection Date: 6/7/2017 9:20:00 AM
Lab ID: 1706502-017 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 10:37:32 AM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/13/2017 5:40:10 PM	32214
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 5:40:10 PM	32214
Surr: DNOP	96.0	70-130		%Rec	1	6/13/2017 5:40:10 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/12/2017 10:38:38 PM	32208
Surr: BFB	99.0	54-150		%Rec	1	6/12/2017 10:38:38 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 10:38:38 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 10:38:38 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 10:38:38 PM	32208
Xylenes, Total	ND	0.095		mg/Kg	1	6/12/2017 10:38:38 PM	32208
Surr: 4-Bromofluorobenzene	128	66.6-132		%Rec	1	6/12/2017 10:38:38 PM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-95 @19'-20'
Project: Largo CS
Collection Date: 6/7/2017 9:25:00 AM
Lab ID: 1706502-018 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 10:49:56 AM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/13/2017 6:05:15 PM	32214
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 6:05:15 PM	32214
Surr: DNOP	102	70-130		%Rec	1	6/13/2017 6:05:15 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/12/2017 11:02:29 PM	32208
Surr: BFB	98.8	54-150		%Rec	1	6/12/2017 11:02:29 PM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 11:02:29 PM	32208
Toluene	ND	0.047		mg/Kg	1	6/12/2017 11:02:29 PM	32208
Ethylbenzene	ND	0.047		mg/Kg	1	6/12/2017 11:02:29 PM	32208
Xylenes, Total	ND	0.095		mg/Kg	1	6/12/2017 11:02:29 PM	32208
Surr: 4-Bromofluorobenzene	130	66.6-132		%Rec	1	6/12/2017 11:02:29 PM	32208

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-100 @19'-20'
Project: Largo CS
Collection Date: 6/7/2017 10:30:00 AM
Lab ID: 1706502-019 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 11:02:21 AM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/13/2017 6:30:19 PM	32214
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/13/2017 6:30:19 PM	32214
Surr: DNOP	102	70-130		%Rec	1	6/13/2017 6:30:19 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2017 12:38:25 AM	32208
Surr: BFB	94.8	54-150		%Rec	1	6/13/2017 12:38:25 AM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2017 12:38:25 AM	32208
Toluene	ND	0.050		mg/Kg	1	6/13/2017 12:38:25 AM	32208
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2017 12:38:25 AM	32208
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2017 12:38:25 AM	32208
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/13/2017 12:38:25 AM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-99 @17'-18'
Project: Largo CS
Collection Date: 6/7/2017 11:40:00 AM
Lab ID: 1706502-020 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 1:18:53 PM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/15/2017 7:41:08 PM	32292
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2017 7:41:08 PM	32292
Surr: DNOP	81.7	70-130		%Rec	1	6/15/2017 7:41:08 PM	32292
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/13/2017 1:02:11 AM	32208
Surr: BFB	95.1	54-150		%Rec	1	6/13/2017 1:02:11 AM	32208
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/13/2017 1:02:11 AM	32208
Toluene	ND	0.046		mg/Kg	1	6/13/2017 1:02:11 AM	32208
Ethylbenzene	ND	0.046		mg/Kg	1	6/13/2017 1:02:11 AM	32208
Xylenes, Total	ND	0.092		mg/Kg	1	6/13/2017 1:02:11 AM	32208
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	1	6/13/2017 1:02:11 AM	32208

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-99 @ 19'-20'
Project: Largo CS
Collection Date: 6/7/2017 11:45:00 AM
Lab ID: 1706502-021 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 1:31:17 PM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/13/2017 7:20:23 PM	32214
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 7:20:23 PM	32214
Surr: DNOP	90.7	70-130		%Rec	1	6/13/2017 7:20:23 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2017 1:26:14 AM	32209
Surr: BFB	96.9	54-150		%Rec	1	6/13/2017 1:26:14 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2017 1:26:14 AM	32209
Toluene	ND	0.048		mg/Kg	1	6/13/2017 1:26:14 AM	32209
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2017 1:26:14 AM	32209
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2017 1:26:14 AM	32209
Surr: 4-Bromofluorobenzene	125	66.6-132		%Rec	1	6/13/2017 1:26:14 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SVET-1 @ 6'-7'
Project: Largo CS
Collection Date: 6/5/2017 12:30:00 PM
Lab ID: 1706502-022 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE						Analyst: **DJF**	
Percent Moisture	22	1.0		wt%	1	6/13/2017	R43483
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	57	30		mg/Kg	20	6/15/2017 1:43:42 PM	32305
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Iron	14000	240		mg/Kg	100	6/15/2017 11:58:33 AM	32273
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	1000	19		mg/Kg	2	6/14/2017 1:56:31 PM	32214
Motor Oil Range Organics (MRO)	460	95		mg/Kg	2	6/14/2017 1:56:31 PM	32214
Surr: DNOP	111	70-130		%Rec	2	6/14/2017 1:56:31 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	14000	250		mg/Kg	50	6/12/2017 11:23:07 AM	32209
Surr: BFB	757	54-150	S	%Rec	50	6/12/2017 11:23:07 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	6.8	1.2		mg/Kg	50	6/12/2017 11:23:07 AM	32209
Toluene	200	2.5		mg/Kg	50	6/12/2017 11:23:07 AM	32209
Ethylbenzene	51	2.5		mg/Kg	50	6/12/2017 11:23:07 AM	32209
Xylenes, Total	590	20		mg/Kg	200	6/13/2017 1:50:23 AM	32209
Surr: 4-Bromofluorobenzene	166	66.6-132	S	%Rec	50	6/12/2017 11:23:07 AM	32209
SM4500-H+B: PH						Analyst: **JRR**	
pH	8.02			pH Units	1	6/16/2017 1:51:00 PM	R43572

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Largo CS
Lab ID: 1706502-023 **Matrix:** SOIL

Client Sample ID: SVET-1 @ 12'-12.5'
Collection Date: 6/7/2017 3:05:00 PM
Received Date: 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE						Analyst: **DJF**	
Percent Moisture	25	1.0		wt%	1	6/13/2017	R43483
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	40		mg/Kg	20	6/15/2017 1:56:06 PM	32305
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Iron	21000	240		mg/Kg	100	6/15/2017 11:59:54 AM	32273
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	45	9.8		mg/Kg	1	6/13/2017 8:10:36 PM	32214
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2017 8:10:36 PM	32214
Surr: DNOP	92.8	70-130		%Rec	1	6/13/2017 8:10:36 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	800	23		mg/Kg	5	6/12/2017 8:44:04 PM	32209
Surr: BFB	743	54-150	S	%Rec	5	6/12/2017 8:44:04 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.89	0.11		mg/Kg	5	6/12/2017 8:44:04 PM	32209
Toluene	4.5	0.23		mg/Kg	5	6/12/2017 8:44:04 PM	32209
Ethylbenzene	3.2	0.23		mg/Kg	5	6/12/2017 8:44:04 PM	32209
Xylenes, Total	27	0.46		mg/Kg	5	6/12/2017 8:44:04 PM	32209
Surr: 4-Bromofluorobenzene	147	66.6-132	S	%Rec	5	6/12/2017 8:44:04 PM	32209
SM4500-H+B: PH						Analyst: **JRR**	
pH	8.20			pH Units	1	6/16/2017 1:51:00 PM	R43572

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SVET-1 @ 13.5'-14'
Project: Largo CS
Collection Date: 6/7/2017 3:10:00 PM
Lab ID: 1706502-024 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 2:33:20 PM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/13/2017 8:35:42 PM	32214
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 8:35:42 PM	32214
Surr: DNOP	105	70-130		%Rec	1	6/13/2017 8:35:42 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	43	4.9		mg/Kg	1	6/13/2017 1:28:44 PM	32209
Surr: BFB	259	54-150	S	%Rec	1	6/13/2017 1:28:44 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.17	0.025		mg/Kg	1	6/13/2017 1:28:44 PM	32209
Toluene	ND	0.049		mg/Kg	1	6/13/2017 1:28:44 PM	32209
Ethylbenzene	0.62	0.049		mg/Kg	1	6/13/2017 1:28:44 PM	32209
Xylenes, Total	0.55	0.099		mg/Kg	1	6/13/2017 1:28:44 PM	32209
Surr: 4-Bromofluorobenzene	144	66.6-132	S	%Rec	1	6/13/2017 1:28:44 PM	32209

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SVET-2 @ 7'-8'
Project: Largo CS
Collection Date: 6/5/2017 1:20:00 PM
Lab ID: 1706502-025 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	49	30		mg/Kg	20	6/15/2017 2:45:44 PM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	450	9.3		mg/Kg	1	6/13/2017 9:00:43 PM	32214
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	6/13/2017 9:00:43 PM	32214
Surr: DNOP	101	70-130		%Rec	1	6/13/2017 9:00:43 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	6100	240		mg/Kg	50	6/12/2017 9:31:12 PM	32209
Surr: BFB	398	54-150	S	%Rec	50	6/12/2017 9:31:12 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	7.4	1.2		mg/Kg	50	6/12/2017 9:31:12 PM	32209
Toluene	83	2.4		mg/Kg	50	6/12/2017 9:31:12 PM	32209
Ethylbenzene	18	2.4		mg/Kg	50	6/12/2017 9:31:12 PM	32209
Xylenes, Total	190	4.7		mg/Kg	50	6/12/2017 9:31:12 PM	32209
Surr: 4-Bromofluorobenzene	130	66.6-132		%Rec	50	6/12/2017 9:31:12 PM	32209

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SVET-2 @ 19'-20'
Project: Largo CS
Collection Date: 6/7/2017 4:00:00 PM
Lab ID: 1706502-026 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	6/15/2017 2:58:09 PM	32305
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/13/2017 9:25:38 PM	32214
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/13/2017 9:25:38 PM	32214
Surr: DNOP	104	70-130		%Rec	1	6/13/2017 9:25:38 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2017 2:14:22 AM	32209
Surr: BFB	98.5	54-150		%Rec	1	6/13/2017 2:14:22 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2017 2:14:22 AM	32209
Toluene	ND	0.047		mg/Kg	1	6/13/2017 2:14:22 AM	32209
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2017 2:14:22 AM	32209
Xylenes, Total	ND	0.095		mg/Kg	1	6/13/2017 2:14:22 AM	32209
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	6/13/2017 2:14:22 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-96 @ 6'-7'
Project: Largo CS
Collection Date: 6/5/2017 11:45:00 AM
Lab ID: 1706502-027 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE						Analyst: **DJF**	
Percent Moisture	13	1.0		wt%	1	6/13/2017	R43483
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	68	30		mg/Kg	20	6/15/2017 3:10:34 PM	32305
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Iron	7900	250		mg/Kg	100	6/15/2017 12:01:15 PM	32273
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	710	9.3		mg/Kg	1	6/13/2017 9:50:33 PM	32214
Motor Oil Range Organics (MRO)	280	47		mg/Kg	1	6/13/2017 9:50:33 PM	32214
Surr: DNOP	95.5	70-130		%Rec	1	6/13/2017 9:50:33 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	11000	460		mg/Kg	100	6/12/2017 11:05:42 PM	32209
Surr: BFB	369	54-150	S	%Rec	100	6/12/2017 11:05:42 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	8.1	2.3		mg/Kg	100	6/12/2017 11:05:42 PM	32209
Toluene	77	4.6		mg/Kg	100	6/12/2017 11:05:42 PM	32209
Ethylbenzene	15	4.6		mg/Kg	100	6/12/2017 11:05:42 PM	32209
Xylenes, Total	360	9.2		mg/Kg	100	6/12/2017 11:05:42 PM	32209
Surr: 4-Bromofluorobenzene	128	66.6-132		%Rec	100	6/12/2017 11:05:42 PM	32209
SM4500-H+B: PH						Analyst: **JRR**	
pH	8.44			pH Units	1	6/16/2017 1:51:00 PM	R43572

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Project: Largo CS
Lab ID: 1706502-028 **Matrix:** SOIL

Client Sample ID: SB-96 @ 12'-13'
Collection Date: 6/8/2017 9:15:00 AM
Received Date: 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
PERCENT MOISTURE						Analyst: **DJF**	
Percent Moisture	24	1.0		wt%	1	6/13/2017	R43483
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	60	30		mg/Kg	20	6/16/2017 8:14:47 PM	32317
EPA METHOD 6010B: SOIL METALS						Analyst: **MED**	
Iron	15000	250		mg/Kg	100	6/15/2017 12:02:47 PM	32273
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	140	9.2		mg/Kg	1	6/13/2017 10:15:31 PM	32214
Motor Oil Range Organics (MRO)	330	46		mg/Kg	1	6/13/2017 10:15:31 PM	32214
Surr: DNOP	94.6	70-130		%Rec	1	6/13/2017 10:15:31 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3900	93		mg/Kg	20	6/12/2017 11:29:23 PM	32209
Surr: BFB	467	54-150	S	%Rec	20	6/12/2017 11:29:23 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5.4	0.47		mg/Kg	20	6/12/2017 11:29:23 PM	32209
Toluene	2.5	0.93		mg/Kg	20	6/12/2017 11:29:23 PM	32209
Ethylbenzene	16	0.93		mg/Kg	20	6/12/2017 11:29:23 PM	32209
Xylenes, Total	42	1.9		mg/Kg	20	6/12/2017 11:29:23 PM	32209
Surr: 4-Bromofluorobenzene	144	66.6-132	S	%Rec	20	6/12/2017 11:29:23 PM	32209
SM4500-H+B: PH						Analyst: **JRR**	
pH	9.25			pH Units	1	6/16/2017 1:51:00 PM	R43572

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-96 @ 19'-20'
Project: Largo CS
Collection Date: 6/8/2017 9:20:00 AM
Lab ID: 1706502-029 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 8:27:12 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/13/2017 10:40:29 PM	32214
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/13/2017 10:40:29 PM	32214
Surr: DNOP	97.1	70-130		%Rec	1	6/13/2017 10:40:29 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/13/2017 2:38:14 AM	32209
Surr: BFB	103	54-150		%Rec	1	6/13/2017 2:38:14 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/13/2017 2:38:14 AM	32209
Toluene	ND	0.046		mg/Kg	1	6/13/2017 2:38:14 AM	32209
Ethylbenzene	ND	0.046		mg/Kg	1	6/13/2017 2:38:14 AM	32209
Xylenes, Total	ND	0.093		mg/Kg	1	6/13/2017 2:38:14 AM	32209
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/13/2017 2:38:14 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-104 @ 16'-17'
Project: Largo CS
Collection Date: 6/6/2017 10:30:00 AM
Lab ID: 1706502-030 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 9:04:26 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/13/2017 11:05:42 PM	32214
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/13/2017 11:05:42 PM	32214
Surr: DNOP	98.3	70-130		%Rec	1	6/13/2017 11:05:42 PM	32214
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/13/2017 3:02:09 AM	32209
Surr: BFB	98.3	54-150		%Rec	1	6/13/2017 3:02:09 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2017 3:02:09 AM	32209
Toluene	ND	0.048		mg/Kg	1	6/13/2017 3:02:09 AM	32209
Ethylbenzene	ND	0.048		mg/Kg	1	6/13/2017 3:02:09 AM	32209
Xylenes, Total	ND	0.095		mg/Kg	1	6/13/2017 3:02:09 AM	32209
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	1	6/13/2017 3:02:09 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-104 @ 19'-20'
Project: Largo CS
Collection Date: 6/6/2017 10:35:00 AM
Lab ID: 1706502-031 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 9:16:51 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/14/2017 12:20:00 AM	32229
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/14/2017 12:20:00 AM	32229
Surr: DNOP	100	70-130		%Rec	1	6/14/2017 12:20:00 AM	32229
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/12/2017 11:52:59 PM	32209
Surr: BFB	116	54-150		%Rec	1	6/12/2017 11:52:59 PM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/12/2017 11:52:59 PM	32209
Toluene	ND	0.048		mg/Kg	1	6/12/2017 11:52:59 PM	32209
Ethylbenzene	ND	0.048		mg/Kg	1	6/12/2017 11:52:59 PM	32209
Xylenes, Total	ND	0.096		mg/Kg	1	6/12/2017 11:52:59 PM	32209
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	6/12/2017 11:52:59 PM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-105 @ 13'-15'
Project: Largo CS
Collection Date: 6/6/2017 2:30:00 PM
Lab ID: 1706502-032 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 9:29:15 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/14/2017 1:34:45 AM	32229
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/14/2017 1:34:45 AM	32229
Surr: DNOP	110	70-130		%Rec	1	6/14/2017 1:34:45 AM	32229
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	8.1	4.7		mg/Kg	1	6/13/2017 12:16:37 AM	32209
Surr: BFB	124	54-150		%Rec	1	6/13/2017 12:16:37 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/13/2017 12:16:37 AM	32209
Toluene	0.062	0.047		mg/Kg	1	6/13/2017 12:16:37 AM	32209
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2017 12:16:37 AM	32209
Xylenes, Total	0.33	0.093		mg/Kg	1	6/13/2017 12:16:37 AM	32209
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	6/13/2017 12:16:37 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-105 @ 19'-20'
Project: Largo CS
Collection Date: 6/6/2017 2:35:00 PM
Lab ID: 1706502-033 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 9:41:40 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/14/2017 1:59:25 AM	32229
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/14/2017 1:59:25 AM	32229
Surr: DNOP	101	70-130		%Rec	1	6/14/2017 1:59:25 AM	32229
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2017 12:40:11 AM	32209
Surr: BFB	109	54-150		%Rec	1	6/13/2017 12:40:11 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/13/2017 12:40:11 AM	32209
Toluene	ND	0.049		mg/Kg	1	6/13/2017 12:40:11 AM	32209
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2017 12:40:11 AM	32209
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2017 12:40:11 AM	32209
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	6/13/2017 12:40:11 AM	32209

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

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-106 @ 15'-17'
Project: Largo CS
Collection Date: 6/6/2017 1:35:00 PM
Lab ID: 1706502-034 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 9:54:05 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/14/2017 2:24:09 AM	32229
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/14/2017 2:24:09 AM	32229
Surr: DNOP	108	70-130		%Rec	1	6/14/2017 2:24:09 AM	32229
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/13/2017 1:03:44 AM	32209
Surr: BFB	113	54-150		%Rec	1	6/13/2017 1:03:44 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/13/2017 1:03:44 AM	32209
Toluene	ND	0.047		mg/Kg	1	6/13/2017 1:03:44 AM	32209
Ethylbenzene	ND	0.047		mg/Kg	1	6/13/2017 1:03:44 AM	32209
Xylenes, Total	ND	0.093		mg/Kg	1	6/13/2017 1:03:44 AM	32209
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	6/13/2017 1:03:44 AM	32209

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

Qualifiers:

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

Analytical Report
Lab Order **1706502**
Date Reported: **6/21/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-106 @ 19'-20'
Project: Largo CS
Collection Date: 6/6/2017 1:40:00 PM
Lab ID: 1706502-035 **Matrix:** SOIL **Received Date:** 6/9/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/16/2017 10:06:30 PM	32317
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/14/2017 2:48:43 AM	32229
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/14/2017 2:48:43 AM	32229
Surr: DNOP	97.1	70-130		%Rec	1	6/14/2017 2:48:43 AM	32229
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2017 1:27:15 AM	32209
Surr: BFB	109	54-150		%Rec	1	6/13/2017 1:27:15 AM	32209
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/13/2017 1:27:15 AM	32209
Toluene	ND	0.049		mg/Kg	1	6/13/2017 1:27:15 AM	32209
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2017 1:27:15 AM	32209
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2017 1:27:15 AM	32209
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	6/13/2017 1:27:15 AM	32209

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**

21-Jun-17

Client: APEX TITAN

Project: Largo CS

Sample ID	**MB-32285**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**32285**	RunNo:	**43507**					
Prep Date:	**6/14/2017**	Analysis Date:	**6/14/2017**	SeqNo:	**1370245**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-32285**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**32285**	RunNo:	**43507**					
Prep Date:	**6/14/2017**	Analysis Date:	**6/14/2017**	SeqNo:	**1370246**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID	**MB-32305**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**32305**	RunNo:	**43534**					
Prep Date:	**6/15/2017**	Analysis Date:	**6/15/2017**	SeqNo:	**1371963**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-32305**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**32305**	RunNo:	**43534**					
Prep Date:	**6/15/2017**	Analysis Date:	**6/15/2017**	SeqNo:	**1371964**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Sample ID	**MB-32317**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**32317**	RunNo:	**43601**					
Prep Date:	**6/15/2017**	Analysis Date:	**6/16/2017**	SeqNo:	**1373647**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-32317**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**32317**	RunNo:	**43601**					
Prep Date:	**6/15/2017**	Analysis Date:	**6/16/2017**	SeqNo:	**1373649**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**LCS-32210**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**32210**		RunNo:	**43422**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367518**	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	103	73.2	114			
Surr: DNOP	4.7		5.000		94.1	70	130			

Sample ID	**MB-32210**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**32210**		RunNo:	**43422**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367520**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	70	130			

Sample ID	**LCS-32214**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**32214**		RunNo:	**43444**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/13/2017**		SeqNo:	**1368413**	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	95.8	73.2	114			
Surr: DNOP	5.2		5.000		104	70	130			

Sample ID	**MB-32214**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**32214**		RunNo:	**43444**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/13/2017**		SeqNo:	**1368414**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.4	70	130			

Sample ID	**1706502-011AMS**	SampType:	**MS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**SB-91 @19'-20'**	Batch ID:	**32214**		RunNo:	**43444**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/13/2017**		SeqNo:	**1368461**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.43	0	93.1	55.8	122			
Surr: DNOP	4.5		4.643		96.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**1706502-011AMSD**	SampType:	**MSD**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**SB-91 @19'-20'**	Batch ID:	**32214**	RunNo:	**43444**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/13/2017**	SeqNo:	**1368462**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.64	0	93.3	55.8	122	0.772	20	
Surr: DNOP	4.6		4.664		98.8	70	130	0	0	

Sample ID	**1706502-031AMS**	SampType:	**MS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**SB-104 @ 19'-20'**	Batch ID:	**32229**	RunNo:	**43444**					
Prep Date:	**6/12/2017**	Analysis Date:	**6/14/2017**	SeqNo:	**1368998**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	47.08	0	98.1	55.8	122			
Surr: DNOP	4.8		4.708		101	70	130			

Sample ID	**1706502-031AMSD**	SampType:	**MSD**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**SB-104 @ 19'-20'**	Batch ID:	**32229**	RunNo:	**43444**					
Prep Date:	**6/12/2017**	Analysis Date:	**6/14/2017**	SeqNo:	**1369002**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.26	0	97.4	55.8	122	1.72	20	
Surr: DNOP	4.6		4.826		96.3	70	130	0	0	

Sample ID	**LCS-32229**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**32229**	RunNo:	**43444**					
Prep Date:	**6/12/2017**	Analysis Date:	**6/13/2017**	SeqNo:	**1369039**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.4	73.2	114			
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID	**MB-32229**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**32229**	RunNo:	**43444**					
Prep Date:	**6/12/2017**	Analysis Date:	**6/13/2017**	SeqNo:	**1369043**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**LCS-32292**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**32292**		RunNo:	**43528**				
Prep Date:	**6/14/2017**	Analysis Date:	**6/15/2017**		SeqNo:	**1372096**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	73.2	114			
Surr: DNOP	4.1		5.000		81.4	70	130			

Sample ID	**MB-32292**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**32292**		RunNo:	**43528**				
Prep Date:	**6/14/2017**	Analysis Date:	**6/15/2017**		SeqNo:	**1372097**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**MB-32208**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367529**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	54	150			

Sample ID	**LCS-32208**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367530**	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	105	76.4	125			
Surr: BFB	1200		1000		119	54	150			

Sample ID	**1706502-002AMS**	SampType:	**MS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**SB-97 @ 19'-20'**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367533**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.63	0	85.7	77.8	128			
Surr: BFB	1100		945.2		115	54	150			

Sample ID	**1706502-002AMSD**	SampType:	**MSD**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**SB-97 @ 19'-20'**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367534**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.72	0	98.8	77.8	128	14.6	20	
Surr: BFB	1100		948.8		111	54	150	0	0	

Sample ID	**MB-32209**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**32209**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367554**	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	950		1000		95.1	54	150			

Sample ID	**LCS-32209**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**32209**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367555**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**LCS-32209**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**32209**	RunNo:	**43435**
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367555** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	76.4	125			
Surr: BFB	1200		1000		116	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**

21-Jun-17

Client: APEX TITAN

Project: Largo CS

Sample ID	**1706502-001AMS**	SampType:	**MS**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**SB-97 @ 14'-16'**	Batch ID:	**32208**		RunNo:	**43435**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367567**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9690	0	109	61.5	138			
Toluene	1.1	0.048	0.9690	0.007767	112	71.4	127			
Ethylbenzene	1.1	0.048	0.9690	0	116	70.9	132			
Xylenes, Total	3.4	0.097	2.907	0	117	76.2	123			
Surr: 4-Bromofluorobenzene	1.4		0.9690		140	66.6	132			S

Sample ID	**1706502-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**SB-97 @ 14'-16'**	Batch ID:	**32208**		RunNo:	**43435**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367568**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9479	0	105	61.5	138	6.66	20	
Toluene	1.1	0.047	0.9479	0.007767	111	71.4	127	2.99	20	
Ethylbenzene	1.1	0.047	0.9479	0	116	70.9	132	2.17	20	
Xylenes, Total	3.3	0.095	2.844	0	117	76.2	123	2.30	20	
Surr: 4-Bromofluorobenzene	1.3		0.9479		138	66.6	132	0	0	S

Sample ID	**MB-32209**	SampType:	**MBLK**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**PBS**	Batch ID:	**32209**		RunNo:	**43435**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367589**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		121	66.6	132			

Sample ID	**LCS-32209**	SampType:	**LCS**		TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**LCSS**	Batch ID:	**32209**		RunNo:	**43435**				
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**		SeqNo:	**1367590**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.4		1.000		136	66.6	132			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**

21-Jun-17

Client: APEX TITAN

Project: Largo CS

Sample ID	**1706502-021AMS**	SampType:	**MS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**SB-99 @ 19'-20'**	Batch ID:	**32209**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367592**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9852	0.01199	98.0	61.5	138			
Toluene	1.0	0.049	0.9852	0	101	71.4	127			
Ethylbenzene	1.0	0.049	0.9852	0	103	70.9	132			
Xylenes, Total	3.1	0.099	2.956	0	105	76.2	123			
Surr: 4-Bromofluorobenzene	1.3		0.9852		130	66.6	132			

Sample ID	**1706502-021AMSD**	SampType:	**MSD**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**SB-99 @ 19'-20'**	Batch ID:	**32209**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367593**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9653	0.01199	96.9	61.5	138	3.14	20	
Toluene	0.96	0.048	0.9653	0	99.3	71.4	127	4.08	20	
Ethylbenzene	0.97	0.048	0.9653	0	101	70.9	132	4.72	20	
Xylenes, Total	3.0	0.097	2.896	0	103	76.2	123	3.80	20	
Surr: 4-Bromofluorobenzene	1.2		0.9653		129	66.6	132	0	0	

Sample ID	**MB-32208**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367599**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.4		1.000		140	66.6	132			S

Sample ID	**LCS-32208**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**32208**	RunNo:	**43435**					
Prep Date:	**6/9/2017**	Analysis Date:	**6/12/2017**	SeqNo:	**1367600**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.4		1.000		135	66.6	132			S

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**MB-32273**	SampType:	**MBLK**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**PBS**	Batch ID:	**32273**	RunNo:	**43511**					
Prep Date:	**6/14/2017**	Analysis Date:	**6/15/2017**	SeqNo:	**1370536**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	2.5								

Sample ID	**LCS-32273**	SampType:	**LCS**	TestCode:	**EPA Method 6010B: Soil Metals**					
Client ID:	**LCSS**	Batch ID:	**32273**	RunNo:	**43511**					
Prep Date:	**6/14/2017**	Analysis Date:	**6/15/2017**	SeqNo:	**1370540**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	25	2.5	25.00	0	102	80	120			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706502**
21-Jun-17

Client: APEX TITAN
Project: Largo CS

Sample ID	**1706502-007ADUP**	SampType:	**DUP**	TestCode:	**SM4500-H+B: pH**					
Client ID:	**SB-102 @ 8'-9'**	Batch ID:	**R43572**	RunNo:	**43572**					
Prep Date:		Analysis Date:	**6/16/2017**	SeqNo:	**1372496**	Units:	**pH Units**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	8.26									

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1706502 | RcptNo: 1

Received By: Anne Thorne 6/9/2017 7:30:00 AM

Completed By: Ashley Gallegos 6/9/2017 11:00:55 AM

Reviewed By: 6/9/17

Chain of Custody

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

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 ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
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 ☐	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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Sampler's Name: Chad D'Amont; Ranee Deechilly

Sampler's Signature:

Proj. No.:

Project Name: Largo CS

ANALYSIS REQUESTED: 8015 TPH GRO/DRO/MRO; 8021 BTEX; Chlorides; Total Iron; % moisture; pH

Lab use only

Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 1 of 4

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	8015 TPH GRO/DRO/MRO	8021 BTEX	Chlorides	Total Iron	% moisture	pH	Lab Sample ID (Lab Use Only)
S	6/5/17	1415			SB-97 @ 14'-16'						2		X	X					1706502-001
↓	↓	1430			SB-97 @ 19'-20'						2		X	X					-002
		1515			SB-98 @ 16'-18'						2		X	X					-003
	↓	1530			SB-98 @ 19'-20'						2		X	X					-004
	6/7/17	1200			SB-101 @ 9'-10'						1		X	X					-005
		1210			SB-101 @ 11'-12'						1		X	X					-006
		1000			SB-102 @ 8'-9'						2		X	X	X	X	X		-007
		1020			SB-102 @ 12'-13'						2		X	X					-008
		930			SB-103 @ 7'-8'						2		X	X					-009
↓	↓	950			SB-103 @ 11'-12'						2		X	X					-010

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/8/17	1840		6/12/17	0730

NOTES: Bill to Apex

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil

Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 2 of 4

Sampler's Name: Dakota Porter - Ranee Deechilly

Sampler's Signature:

Proj. No.

Project Name: Largo CS

Matrix	Date	Time	Composite	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 L.	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED: 8015 TPH GRO/DRO/MRO	8021 BTEX	Chlorides	Total Iron	% Moisture	pH	Lab Sample ID (Lab Use Only)
S	6/6/17	835			SB-91 @ 19'-20'						2		X	X	X				1706502-011
		915			SB-92 @ 12'-15'						2		X	X	X				-012
		920			SB-92 @ 19'-20'						2		X	X	X				-013
	↓	1540			SB-93 @ 18'-20'						1		X	X	X				-014
	6/7/17	815			SB-94 @ 18'-19'						1		X	X	X				-015
		820			SB-94 @ 19'-20'						1		X	X	X				-016
		920			SB-95 @ 18'-19'						1		X	X	X				-017
		925			SB-95 @ 19'-20'						1		X	X	X				-018
		1030			SB-100 @ 19'-20'						1		X	X	X				-019
↓	↓	1140			SB-99 @ 17'-18'						1		X	X	X				-020

Turn around time: X Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/8/17	1840		06/09/17	0730
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

NOTES:

Bill to Apex

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Lab use only

Due Date: 10

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 3 of 4

Sampler's Name: Chad D'Aguti, Ranee Deechilly

Sampler's Signature: [signatures]

Proj. No.:

Project Name: Largo CS

ANALYSIS REQUESTED: 8015 TPH (GRO/DRO/MRO); 8021 BTEX; Chlorides; Total Iron; % moisture; pH

RFS. wing 06/05/17

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	8015 TPH (GRO/DRO/MRO)	8021 BTEX	Chlorides	Total Iron	% moisture	pH	Lab Sample ID (Lab Use Only)
S	6/7/17	1145			SB-99 @ 19'-20'						2		X	X	X				1706502-021
	6/5/17	1230			SVET-1 @ 6'-7'						2		X	X	X	X	X	X	-022
	6/7/17	1505			SVET-1 @ 12'-12.5'						2		X	X	X	X	X	X	023
		1510			SVET-1 @ 8.5'-14'						2		X	X	X				-024
	6/5/17	1320			SVET-2 @ 7'-8'						2		X	X	X				-025
	6/7/17	1600			SVET-2 @ 19'-20'						2		X	X	X				-026
	6/5/17	845			SB-96 @ 6'-7'						2		X	X	X	X	X	X	-027
	6/8/17	915			SB-96 @ 12'-13'						2		X	X	X	X	X	X	-028
	6/8/17	920			SB-96 @ 19'-20'						2		X	X	X				-029

NTS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/8/17	1840	[signature]	06/09/17	0730

NOTES: Bill to Apex

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil

Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall

Address: ABQ, NM

Contact: A. Freeman

Phone:

PO/SO #:

Sampler's Name: Ranee Deechilly

Sampler's Signature:

Proj. No.

Project Name: Largo CS

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 4 of 4

Matrix	Date	Time	# of Containers	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	8015 TPH (GRO/DRO/MRO)	8021 BTEX	Chlorides	Total Iron	% moisture	pH	Lab Sample ID (Lab Use Only)
S	6/6/17	1030			SB-104 @ 16'-17'						1		X	X	X				17060502-01430
		1035			SB-104 @ 19'-20'						2		X	X	X				-01231
		1430			SB-105 @ 13'-15'						2		X	X	X				-01332
		1435			SB-105 @ 19'-20'						2		X	X	X				-01433
		1335			SB-106 @ 15'-17'						2		X	X	X				-01534
		1340			SB-106 @ 19'-20'						2		X	X	X				-01635

NAS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	6/8/17	18:40		06/09/17	0730
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:

NOTES: Bill to Apex

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 02, 2021

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

RE: Largo CS OrderNo.: 1706967

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 17 sample(s) on 6/16/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 31, 2017.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

CLIENT: APEX TITAN
Project: Largo CS
Lab ID: 1706967-001 **Matrix:** SOIL

Client Sample ID: SB-105 @ 11'-12'
Collection Date: 6/12/2017 4:00:00 PM
Received Date: 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/22/2017 5:08:35 PM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	57	10		mg/Kg	1	6/20/2017 2:00:03 PM	32363
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2017 2:00:03 PM	32363
Surr: DNOP	106	70-130		%Rec	1	6/20/2017 2:00:03 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2017 2:02:57 PM	32355
Surr: BFB	102	54-150		%Rec	1	6/20/2017 2:02:57 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/20/2017 2:02:57 PM	32355
Toluene	ND	0.048		mg/Kg	1	6/20/2017 2:02:57 PM	32355
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2017 2:02:57 PM	32355
Xylenes, Total	ND	0.096		mg/Kg	1	6/20/2017 2:02:57 PM	32355
Surr: 4-Bromofluorobenzene	129	66.6-132		%Rec	1	6/20/2017 2:02:57 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-93 @ 9'-10'
Project: Largo CS
Collection Date: 6/13/2017 9:45:00 AM
Lab ID: 1706967-002 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	30		mg/Kg	20	6/22/2017 5:21:00 PM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2017 3:15:24 PM	32363
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2017 3:15:24 PM	32363
Surr: DNOP	96.3	70-130		%Rec	1	6/20/2017 3:15:24 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2017 7:18:20 PM	32355
Surr: BFB	94.3	54-150		%Rec	1	6/20/2017 7:18:20 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/20/2017 7:18:20 PM	32355
Toluene	ND	0.049		mg/Kg	1	6/20/2017 7:18:20 PM	32355
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2017 7:18:20 PM	32355
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2017 7:18:20 PM	32355
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	1	6/20/2017 7:18:20 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-104 @ 8'-9'
Project: Largo CS
Collection Date: 6/13/2017 9:00:00 AM
Lab ID: 1706967-003 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	33	30		mg/Kg	20	6/22/2017 5:58:14 PM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	24	9.1		mg/Kg	1	6/20/2017 3:40:32 PM	32363
Motor Oil Range Organics (MRO)	470	46		mg/Kg	1	6/20/2017 3:40:32 PM	32363
Surr: DNOP	95.3	70-130		%Rec	1	6/20/2017 3:40:32 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2017 7:42:29 PM	32355
Surr: BFB	96.9	54-150		%Rec	1	6/20/2017 7:42:29 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/20/2017 7:42:29 PM	32355
Toluene	ND	0.048		mg/Kg	1	6/20/2017 7:42:29 PM	32355
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2017 7:42:29 PM	32355
Xylenes, Total	ND	0.096		mg/Kg	1	6/20/2017 7:42:29 PM	32355
Surr: 4-Bromofluorobenzene	120	66.6-132		%Rec	1	6/20/2017 7:42:29 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-100 @ 7'-8'
Project: Largo CS
Collection Date: 6/13/2017 10:35:00 AM
Lab ID: 1706967-004 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	170	30		mg/Kg	20	6/22/2017 6:10:39 PM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2017 4:05:50 PM	32363
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2017 4:05:50 PM	32363
Surr: DNOP	80.8	70-130		%Rec	1	6/20/2017 4:05:50 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2017 8:06:39 PM	32355
Surr: BFB	95.0	54-150		%Rec	1	6/20/2017 8:06:39 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	6/20/2017 8:06:39 PM	32355
Toluene	ND	0.048		mg/Kg	1	6/20/2017 8:06:39 PM	32355
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2017 8:06:39 PM	32355
Xylenes, Total	ND	0.095		mg/Kg	1	6/20/2017 8:06:39 PM	32355
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	6/20/2017 8:06:39 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-99 @ 6'-7'
Project: Largo CS
Collection Date: 6/13/2017 11:45:00 AM
Lab ID: 1706967-005 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	6/22/2017 6:23:04 PM	32429
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/20/2017 4:30:57 PM	32363
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/20/2017 4:30:57 PM	32363
Surr: DNOP	82.2	70-130		%Rec	1	6/20/2017 4:30:57 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/20/2017 8:30:41 PM	32355
Surr: BFB	99.7	54-150		%Rec	1	6/20/2017 8:30:41 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	6/20/2017 8:30:41 PM	32355
Toluene	ND	0.047		mg/Kg	1	6/20/2017 8:30:41 PM	32355
Ethylbenzene	ND	0.047		mg/Kg	1	6/20/2017 8:30:41 PM	32355
Xylenes, Total	ND	0.093		mg/Kg	1	6/20/2017 8:30:41 PM	32355
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	1	6/20/2017 8:30:41 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-97 @ 11'-12'
Project: Largo CS
Collection Date: 6/6/2017 11:15:00 AM
Lab ID: 1706967-006 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/22/2017 12:10:43 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2017 4:56:04 PM	32363
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2017 4:56:04 PM	32363
Surr: DNOP	83.4	70-130		%Rec	1	6/20/2017 4:56:04 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	6/20/2017 8:54:46 PM	32355
Surr: BFB	95.5	54-150	H	%Rec	1	6/20/2017 8:54:46 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024	H	mg/Kg	1	6/20/2017 8:54:46 PM	32355
Toluene	ND	0.048	H	mg/Kg	1	6/20/2017 8:54:46 PM	32355
Ethylbenzene	ND	0.048	H	mg/Kg	1	6/20/2017 8:54:46 PM	32355
Xylenes, Total	ND	0.096	H	mg/Kg	1	6/20/2017 8:54:46 PM	32355
Surr: 4-Bromofluorobenzene	122	66.6-132	H	%Rec	1	6/20/2017 8:54:46 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-92 @ 8'-9'
Project: Largo CS
Collection Date: 6/12/2017 1:00:00 PM
Lab ID: 1706967-007 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	72	30		mg/Kg	20	6/22/2017 12:23:07 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	810	92		mg/Kg	10	6/21/2017 3:24:28 PM	32363
Motor Oil Range Organics (MRO)	980	460		mg/Kg	10	6/21/2017 3:24:28 PM	32363
Surr: DNOP	0	70-130	S	%Rec	10	6/21/2017 3:24:28 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	4700	460		mg/Kg	100	6/20/2017 9:18:46 PM	32355
Surr: BFB	220	54-150	S	%Rec	100	6/20/2017 9:18:46 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4.7	2.3		mg/Kg	100	6/20/2017 9:18:46 PM	32355
Toluene	38	4.6		mg/Kg	100	6/20/2017 9:18:46 PM	32355
Ethylbenzene	22	4.6		mg/Kg	100	6/20/2017 9:18:46 PM	32355
Xylenes, Total	210	9.3		mg/Kg	100	6/20/2017 9:18:46 PM	32355
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	100	6/20/2017 9:18:46 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-95 @ 10'-11'
Project: Largo CS
Collection Date: 6/7/2017 1:45:00 PM
Lab ID: 1706967-008 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	100	30		mg/Kg	20	6/22/2017 1:00:21 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/23/2017 8:33:52 PM	32440
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/23/2017 8:33:52 PM	32440
Surr: DNOP	82.2	70-130		%Rec	1	6/23/2017 8:33:52 PM	32440
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2017 11:48:38 AM	32325
Surr: BFB	90.8	54-150		%Rec	1	6/19/2017 11:48:38 AM	32325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/19/2017 11:48:38 AM	32325
Toluene	ND	0.047		mg/Kg	1	6/19/2017 11:48:38 AM	32325
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2017 11:48:38 AM	32325
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2017 11:48:38 AM	32325
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	6/19/2017 11:48:38 AM	32325

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-94 @ 9'-10'
Project: Largo CS
Collection Date: 6/7/2017 3:00:00 PM
Lab ID: 1706967-009 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	400	30		mg/Kg	20	6/22/2017 1:12:46 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/20/2017 6:12:35 PM	32363
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2017 6:12:35 PM	32363
Surr: DNOP	79.0	70-130		%Rec	1	6/20/2017 6:12:35 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2017 12:12:48 PM	32325
Surr: BFB	95.6	54-150		%Rec	1	6/19/2017 12:12:48 PM	32325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/19/2017 12:12:48 PM	32325
Toluene	ND	0.047		mg/Kg	1	6/19/2017 12:12:48 PM	32325
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2017 12:12:48 PM	32325
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2017 12:12:48 PM	32325
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	1	6/19/2017 12:12:48 PM	32325

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-91 @ 11.5'-12'
Project: Largo CS
Collection Date: 6/12/2017 12:00:00 PM
Lab ID: 1706967-010 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	6/22/2017 1:25:11 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2017 6:38:14 PM	32363
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2017 6:38:14 PM	32363
Surr: DNOP	89.9	70-130		%Rec	1	6/20/2017 6:38:14 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/20/2017 9:42:44 PM	32355
Surr: BFB	92.6	54-150		%Rec	1	6/20/2017 9:42:44 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	6/20/2017 9:42:44 PM	32355
Toluene	ND	0.046		mg/Kg	1	6/20/2017 9:42:44 PM	32355
Ethylbenzene	ND	0.046		mg/Kg	1	6/20/2017 9:42:44 PM	32355
Xylenes, Total	ND	0.093		mg/Kg	1	6/20/2017 9:42:44 PM	32355
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	6/20/2017 9:42:44 PM	32355

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

CLIENT: APEX TITAN
Client Sample ID: SB-106 @ 6'-7'
Project: Largo CS
Collection Date: 6/12/2017 2:10:00 PM
Lab ID: 1706967-011 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	100	30		mg/Kg	20	6/22/2017 1:37:35 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	260	9.1		mg/Kg	1	6/20/2017 7:03:38 PM	32363
Motor Oil Range Organics (MRO)	240	46		mg/Kg	1	6/20/2017 7:03:38 PM	32363
Surr: DNOP	87.3	70-130		%Rec	1	6/20/2017 7:03:38 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1700	92		mg/Kg	20	6/20/2017 10:06:43 PM	32355
Surr: BFB	469	54-150	S	%Rec	20	6/20/2017 10:06:43 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.46		mg/Kg	20	6/20/2017 10:06:43 PM	32355
Toluene	ND	0.92		mg/Kg	20	6/20/2017 10:06:43 PM	32355
Ethylbenzene	7.5	0.92		mg/Kg	20	6/20/2017 10:06:43 PM	32355
Xylenes, Total	62	1.8		mg/Kg	20	6/20/2017 10:06:43 PM	32355
Surr: 4-Bromofluorobenzene	141	66.6-132	S	%Rec	20	6/20/2017 10:06:43 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-106 @ 11'-12'
Project: Largo CS
Collection Date: 6/12/2017 2:00:00 PM
Lab ID: 1706967-012 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	36	30		mg/Kg	20	6/22/2017 1:50:00 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/20/2017 7:29:09 PM	32363
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2017 7:29:09 PM	32363
Surr: DNOP	84.6	70-130		%Rec	1	6/20/2017 7:29:09 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2017 10:30:41 PM	32355
Surr: BFB	99.8	54-150		%Rec	1	6/20/2017 10:30:41 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/20/2017 10:30:41 PM	32355
Toluene	ND	0.049		mg/Kg	1	6/20/2017 10:30:41 PM	32355
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2017 10:30:41 PM	32355
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2017 10:30:41 PM	32355
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	1	6/20/2017 10:30:41 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-107 @ 7'-8'
Project: Largo CS
Collection Date: 6/13/2017 1:00:00 PM
Lab ID: 1706967-013 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	88	30		mg/Kg	20	6/22/2017 2:02:25 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	760	9.6		mg/Kg	1	6/20/2017 7:54:31 PM	32363
Motor Oil Range Organics (MRO)	190	48		mg/Kg	1	6/20/2017 7:54:31 PM	32363
Surr: DNOP	89.9	70-130		%Rec	1	6/20/2017 7:54:31 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	9800	970		mg/Kg	200	6/20/2017 10:54:34 PM	32355
Surr: BFB	165	54-150	S	%Rec	200	6/20/2017 10:54:34 PM	32355
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	11	4.8		mg/Kg	200	6/20/2017 10:54:34 PM	32355
Toluene	140	9.7		mg/Kg	200	6/20/2017 10:54:34 PM	32355
Ethylbenzene	50	9.7		mg/Kg	200	6/20/2017 10:54:34 PM	32355
Xylenes, Total	460	19		mg/Kg	200	6/20/2017 10:54:34 PM	32355
Surr: 4-Bromofluorobenzene	129	66.6-132		%Rec	200	6/20/2017 10:54:34 PM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-107 @ 11'-12'
Project: Largo CS
Collection Date: 6/13/2017 1:10:00 PM
Lab ID: 1706967-014 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	31	30		mg/Kg	20	6/22/2017 2:14:50 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	6/20/2017 8:19:59 PM	32363
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2017 8:19:59 PM	32363
Surr: DNOP	91.3	70-130		%Rec	1	6/20/2017 8:19:59 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	260	23		mg/Kg	5	6/21/2017 12:30:06 AM	32355
Surr: BFB	281	54-150	S	%Rec	5	6/21/2017 12:30:06 AM	32355
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.30	0.12		mg/Kg	5	6/21/2017 12:30:06 AM	32355
Toluene	1.4	0.23		mg/Kg	5	6/21/2017 12:30:06 AM	32355
Ethylbenzene	1.0	0.23		mg/Kg	5	6/21/2017 12:30:06 AM	32355
Xylenes, Total	7.5	0.46		mg/Kg	5	6/21/2017 12:30:06 AM	32355
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	5	6/21/2017 12:30:06 AM	32355

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-93 @ 13'-15'
Project: Largo CS
Collection Date: 6/6/2017 3:35:00 PM
Lab ID: 1706967-015 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/22/2017 2:27:14 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2017 8:45:40 PM	32363
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/20/2017 8:45:40 PM	32363
Surr: DNOP	93.1	70-130		%Rec	1	6/20/2017 8:45:40 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2017 12:37:02 PM	32325
Surr: BFB	92.1	54-150		%Rec	1	6/19/2017 12:37:02 PM	32325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/19/2017 12:37:02 PM	32325
Toluene	ND	0.049		mg/Kg	1	6/19/2017 12:37:02 PM	32325
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2017 12:37:02 PM	32325
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2017 12:37:02 PM	32325
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	6/19/2017 12:37:02 PM	32325

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SVET-2 @ 12'-13.5'
Project: Largo CS
Collection Date: 6/7/2017 3:30:00 PM
Lab ID: 1706967-016 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/22/2017 2:39:38 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	12	9.3		mg/Kg	1	6/20/2017 9:11:07 PM	32363
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/20/2017 9:11:07 PM	32363
Surr: DNOP	83.6	70-130		%Rec	1	6/20/2017 9:11:07 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	800	48		mg/Kg	10	6/19/2017 10:36:33 AM	32325
Surr: BFB	289	54-150	S	%Rec	10	6/19/2017 10:36:33 AM	32325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.8	0.24		mg/Kg	10	6/19/2017 10:36:33 AM	32325
Toluene	14	0.48		mg/Kg	10	6/19/2017 10:36:33 AM	32325
Ethylbenzene	4.4	0.48		mg/Kg	10	6/19/2017 10:36:33 AM	32325
Xylenes, Total	40	0.97		mg/Kg	10	6/19/2017 10:36:33 AM	32325
Surr: 4-Bromofluorobenzene	135	66.6-132	S	%Rec	10	6/19/2017 10:36:33 AM	32325

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

Qualifiers:

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

Analytical Report
Lab Order **1706967**
Date Reported: **2/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SB-100 @ 18'-19'
Project: Largo CS
Collection Date: 6/7/2017 10:15:00 AM
Lab ID: 1706967-017 **Matrix:** SOIL **Received Date:** 6/16/2017 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	6/22/2017 2:52:03 PM	32436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/20/2017 9:36:23 PM	32363
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/20/2017 9:36:23 PM	32363
Surr: DNOP	92.7	70-130		%Rec	1	6/20/2017 9:36:23 PM	32363
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2017 1:01:13 PM	32325
Surr: BFB	97.1	54-150		%Rec	1	6/19/2017 1:01:13 PM	32325
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/19/2017 1:01:13 PM	32325
Toluene	ND	0.047		mg/Kg	1	6/19/2017 1:01:13 PM	32325
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2017 1:01:13 PM	32325
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2017 1:01:13 PM	32325
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	1	6/19/2017 1:01:13 PM	32325

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **MB-32429** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **32429** RunNo: **43687**
Prep Date: **6/21/2017** Analysis Date: **6/22/2017** SeqNo: **1377162** Units: **mg/Kg**

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

Sample ID: **LCS-32429** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **32429** RunNo: **43687**
Prep Date: **6/21/2017** Analysis Date: **6/22/2017** SeqNo: **1377163** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID: **MB-32436** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **32436** RunNo: **43718**
Prep Date: **6/22/2017** Analysis Date: **6/22/2017** SeqNo: **1378197** Units: **mg/Kg**

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

Sample ID: **LCS-32436** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **32436** RunNo: **43718**
Prep Date: **6/22/2017** Analysis Date: **6/22/2017** SeqNo: **1378198** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **1706967-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-105 @ 11'-12'** Batch ID: **32363** RunNo: **43630**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375181** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	99	10	50.05	57.15	83.7	55.8	122			
Surr: DNOP	4.7		5.005		93.6	70	130			

Sample ID: **LCS-32363** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **32363** RunNo: **43630**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375182** 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	96.2	73.2	114			
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID: **MB-32363** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **32363** RunNo: **43630**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375183** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID: **1706967-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-105 @ 11'-12'** Batch ID: **32363** RunNo: **43630**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375768** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	95	9.3	46.69	57.15	80.0	55.8	122	4.69	20	
Surr: DNOP	4.3		4.669		91.9	70	130	0	0	

Sample ID: **MB-32440** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **32440** RunNo: **43735**
Prep Date: **6/22/2017** Analysis Date: **6/23/2017** SeqNo: **1377776** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		79.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **LCS-32440** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **32440** RunNo: **43735**
Prep Date: **6/22/2017** Analysis Date: **6/23/2017** SeqNo: **1377777** 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	91.3	73.2	114			
Surr: DNOP	3.8		5.000		75.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **MB-32325** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **32325** RunNo: **43604**
Prep Date: **6/16/2017** Analysis Date: **6/19/2017** SeqNo: **1374087** 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	950		1000		94.9	54	150			

Sample ID: **LCS-32325** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **32325** RunNo: **43604**
Prep Date: **6/16/2017** Analysis Date: **6/19/2017** SeqNo: **1374088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	76.4	125			
Surr: BFB	1100		1000		108	54	150			

Sample ID: **MB-32355** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	54	150			

Sample ID: **LCS-32355** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375319** 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	93.8	76.4	125			
Surr: BFB	1100		1000		113	54	150			

Sample ID: **1706967-002AMS** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-93 @ 9'-10'** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.30	0	125	77.8	128			
Surr: BFB	1100		971.8		112	54	150			

Sample ID: **1706967-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-93 @ 9'-10'** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375323** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **1706967-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-93 @ 9'-10'** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375323** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.53	0	120	77.8	128	2.98	20	
Surr: BFB	1100		981.4		112	54	150	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **MB-32325**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **32325**	RunNo: **43604**							
Prep Date: **6/16/2017**	Analysis Date: **6/19/2017**	SeqNo: **1374110**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		123	66.6	132			

Sample ID: **LCS-32325**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **32325**	RunNo: **43604**							
Prep Date: **6/16/2017**	Analysis Date: **6/19/2017**	SeqNo: **1374111**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		126	66.6	132			

Sample ID: **MB-32355**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **32355**	RunNo: **43647**							
Prep Date: **6/19/2017**	Analysis Date: **6/20/2017**	SeqNo: **1375348**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		127	66.6	132			

Sample ID: **LCS-32355**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **32355**	RunNo: **43647**							
Prep Date: **6/19/2017**	Analysis Date: **6/20/2017**	SeqNo: **1375349**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	66.6	132			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1706967**
02-Feb-21

Client: APEX TITAN
Project: Largo CS

Sample ID: **1706967-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-105 @ 11'-12'** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375351** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9470	0.01024	106	61.5	138			
Toluene	1.0	0.047	0.9470	0.01426	108	71.4	127			
Ethylbenzene	1.1	0.047	0.9470	0.01043	115	70.9	132			
Xylenes, Total	3.4	0.095	2.841	0.05301	117	76.2	123			
Surr: 4-Bromofluorobenzene	1.2		0.9470		123	66.6	132			

Sample ID: **1706967-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-105 @ 11'-12'** Batch ID: **32355** RunNo: **43647**
Prep Date: **6/19/2017** Analysis Date: **6/20/2017** SeqNo: **1375352** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.023	0.9208	0.01024	126	61.5	138	13.9	20	
Toluene	1.2	0.046	0.9208	0.01426	129	71.4	127	15.2	20	S
Ethylbenzene	1.2	0.046	0.9208	0.01043	133	70.9	132	11.9	20	S
Xylenes, Total	3.8	0.092	2.762	0.05301	135	76.2	123	11.5	20	S
Surr: 4-Bromofluorobenzene	1.2		0.9208		129	66.6	132	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: APEX AZTEC Work Order Number: 1706967 RcptNo: 1

Received By: Anne Thorne 6/16/2017 7:55:00 AM

Completed By: Ashley Gallegos 6/16/2017 3:37:29 PM

Reviewed By: JRC 06/16/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	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	1.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall
Address: ABQ
Contact: Andy Freeman
Phone: 505-345-3975
PO/SO #:

Lab use only
Due Date: 1.3
Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5
Page 1 of 2

Sampler's Name: Ranee Deechilly CDApex
Sampler's Signature: [signature]

Proj. No.: 725040112154
Project Name: Largucs

ANALYSIS REQUESTED: 8015 TPH GRO/DRO/MRO; 8021 BTEX; Chloride

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	8015 TPH GRO/DRO/MRO	8021 BTEX	Chloride	Lab Sample ID (Lab Use Only)
S	6/12/17	1600		X	SB-105 @ 11'-12'						1		X	X	X	1706967-001
↓	6/13/17	945		↓	SB-93 @ 9'-10'						1		X	X	X	-002
	6/13/17	900			SB-104 @ 8-9						1		X	X	X	-003
	6/13/17	1035			SB-100 @ 7'-8'						1		X	X	X	-004
	6/13/17	1145			SB-99 @ 6'-7'						1		X	X	X	-005
	6/6/17	1115			SB-97 @ 11'-12'						1		X	X	X	-006
	6/12/17	1300			SB-92 @ 8'-9'						1		X	X	X	-007
	6/7/17	1345			SB-95 10'-11'						1		X	X	X	-008
	6/7/17	1500			SB-94 9'-10'						1		X	X	X	-009
↓	6/12/17	1200		↓	SB-91 @ 11.5'-12'						1		X	X	X	-010

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/15/17	0800	[signature]	6/15/17	0800
[signature]	6/15/17	1035	[signature]	6/15/17	1035
[signature]	6/15/17	1946	[signature]	6/16/17	0755

NOTES: Bill Apex

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

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: Hall ABQ

Address:

Contact: Andy Freeman

Phone:

PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.3

1	2	3	4	5

Page 2 of 2

Sampler's Name: Ranee Deechilly C.J. Apont; Sampler's Signature:

Proj. No.: 225040112154

Project Name: Largo CS

No/Type of Containers

ANALYSIS REQUESTED: 8015 TPH (GRO/DRO/MRO); 8021 BTEX; Chloride

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	6/12/17	1400		X	SB-106 @ 6'-7'						1		1706907-011
	6/12/17	1400			SB-106 @ 11'-12'						1		-012
	6/13/17	1300			SB-107 @ 7'-8'						1		-013
	6/13/17	1310			SB-107 @ 11'-12'						1		-014
	6/6/17	1535			SB-93 @ 13'-15'						2		-015
	6/7/17	1530			SVE-2 @ 12'-13.5'						1		-016
	6/7/17	1015			SB-100 @ 18'-19'						1		-017

NFS

Turn around time: X Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	6/15/17	0800		6/15/17	0800
	6/15/17	1035		6/15/17	1035
	6/15/17	1940		6/16/17	0755

NOTES: Bill Apex

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

PTS Laboratories, Inc.

5730 Centralcrest Street • Houston, TX 77092
Telephone (713) 316-1800 • Fax (877) 255-9953

July 19, 2017

Kyle Summers
Apex TITAN, Inc.
606 S. Rio Grande, Suite A
Aztec, New Mexico 87410

Re: PTS File No: 17-103
Physical Properties Data
Largo CS

Dear Mr. Summers:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Largo CS project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

PTS Laboratories

Project Name: Largo CS
Project Number: N/A

PTS File No: 17-103
Client: Apex TITAN, Inc.

TEST PROGRAM - 20170622

CORE ID	Depth ft.	Core Recovery ft.	New Mexico RBDM Pkg.					Comments
		Plugs:	Vert. 1.5"					
Date Received: 20170622								
SB-107	**7.0-8.0**	**1.0**	**X**					2 - 2" x 6" acetate sleeves
SB-97	**11.0-12.0**	**1.0**	**X**					2 - 2" x 6" acetate sleeves
TOTALS:	**4 cores**	**2.0**	**2**					**2**

Laboratory Test Program Notes
Contaminant identification:
Standard TAT for basic analysis is 10-15 business days.
New Mexico RBDM Package: Intrinsic permeability to water/hydraulic conductivity, total porosity, air-filled porosity, dry bulk density, volumetric moisture content, foc, and grain size analyses.

PTS Laboratories

PTS File No: 17-103
Client: Apex TITAN, Inc.
Report Date: 07/19/17

PHYSICAL PROPERTIES DATA - NEW MEXICO PACKAGE RBDM

Project Name: Largo CS
Project No: N/A

				METHODS:	**API RP 40 / ASTM D2216**	**API RP 40**		**API RP 40**		**API RP 40; EPA 9100**	
					VOLUMETRIC	DENSITY		POROSITY, cm^3/cm^3 (2)		25 PSI CONFINING STRESS	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	ANALYSIS DATE		WATER CONTENT AS FRACTION OF Vb, cm^3/cm^3	DRY BULK, g/cc	GRAIN, g/cc	TOTAL	AIR-FILLED	INTRINSIC PERMEABILITY TO WATER (3), cm^2	HYDRAULIC CONDUCTIVITY (3), cm/s
SB-107	7.6	V	20170706		0.256	1.40	2.65	0.473	0.217	1.05E-11	1.03E-06
SB-97	11.9	V	20170706		0.290	1.42	2.66	0.468	0.178	1.49E-13	1.50E-08

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids.
(3) Permeability to water and hydraulic conductivity measured at saturated conditions.
Vb = Bulk Volume, cc
Water = filtered Laboratory Fresh (tap) or Site water.

PTS Laboratories, Inc.

Apex TITAN, Inc.
PTS File No: 17-103

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

PROJECT NAME: Largo CS
PROJECT NO: N/A

Sample ID	Depth, ft.	Mean Grain Size Description (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
SB-107	7.7-8.0	Silt	0.005	0.00	0.00	0.00	3.18	49.46	47.36	96.82
SB-97	11.5-11.8	Silt	0.009	0.00	0.00	0.00	17.57	46.60	35.83	82.43

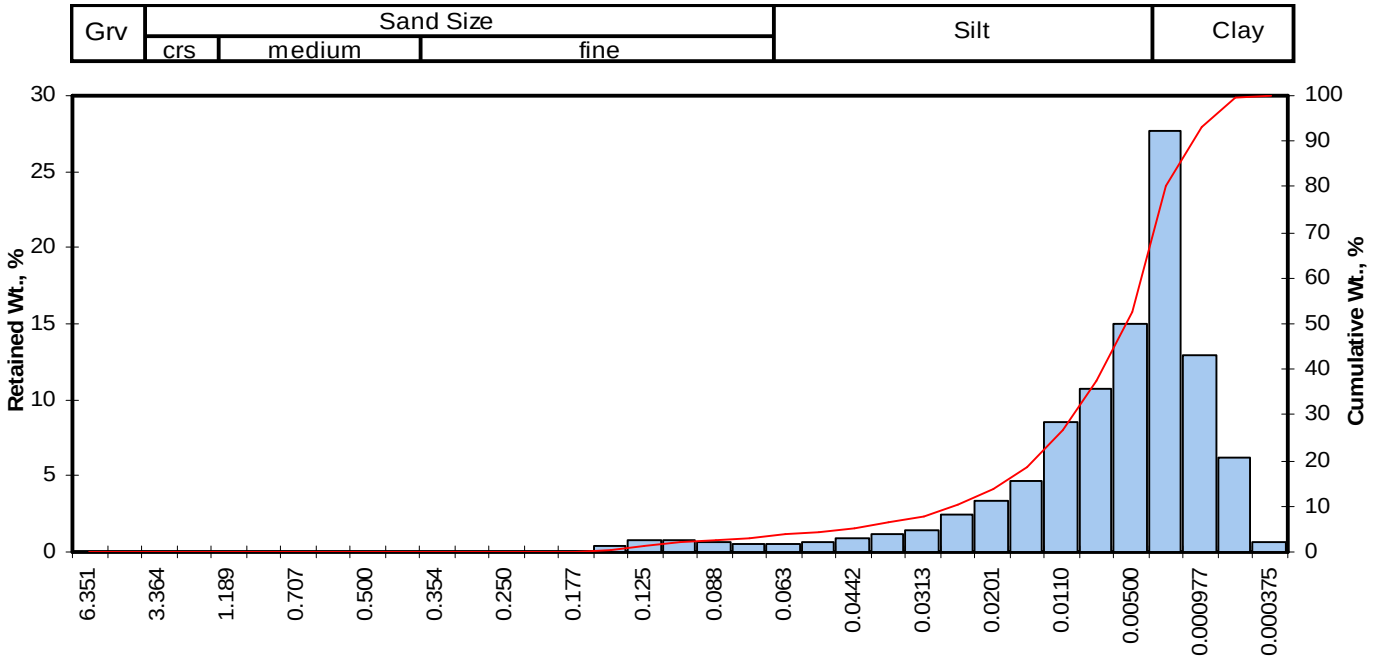
(1) Based on Mean from Trask

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client: Apex TITAN, Inc.
Project: Largo CS
Project No: N/A

PTS File No: 17-103
Sample ID: SB-107
Depth, ft: 7.7-8.0



Particle Size, mm

Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.00	0.00	0.00
0.0098	0.250	2.00	60	0.00	0.00	0.00
0.0083	0.210	2.25	70	0.00	0.00	0.00
0.0070	0.177	2.50	80	0.05	0.05	0.05
0.0059	0.149	2.75	100	0.41	0.41	0.46
0.0049	0.125	3.00	120	0.82	0.82	1.28
0.0041	0.105	3.25	140	0.80	0.80	2.08
0.0035	0.088	3.50	170	0.59	0.59	2.67
0.0029	0.074	3.75	200	0.51	0.51	3.18
0.0025	0.063	4.00	230	0.58	0.58	3.76
0.0021	0.053	4.25	270	0.70	0.70	4.46
0.00174	0.0442	4.50	325	0.89	0.89	5.35
0.00146	0.0372	4.75	400	1.14	1.14	6.49
0.00123	0.0313	5.00	450	1.46	1.46	7.95
0.000986	0.0250	5.32	500	2.46	2.46	10.41
0.000790	0.0201	5.64	635	3.31	3.31	13.73
0.000615	0.0156	6.00		4.64	4.64	18.37
0.000435	0.0110	6.50		8.55	8.55	26.92
0.000308	0.00781	7.00		10.70	10.71	37.63
0.000197	0.00500	7.65		15.00	15.01	52.64
0.000077	0.00195	9.00		27.60	27.61	80.25
0.000038	0.000977	10.00		12.90	12.91	93.16
0.000019	0.000488	11.00		6.22	6.22	99.38
0.000015	0.000375	11.38		0.62	0.62	100.00
TOTALS				**99.90**	**100.00**	**100.00**

Cumulative Weight Percent greater than

Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	4.40	0.0019	0.047
10	5.27	0.0010	0.026
16	5.82	0.0007	0.018
25	6.39	0.0005	0.012
40	7.10	0.0003	0.007
50	7.53	0.0002	0.005
60	8.01	0.0002	0.004
75	8.74	0.0001	0.002
84	9.29	0.0001	0.002
90	9.76	0.0000	0.001
95	10.30	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	7.53	7.53	7.53
Median, in.	0.0002	0.0002	0.0002
Median, mm	0.005	0.005	0.005
Mean, phi	7.13	7.55	7.55
Mean, in.	0.0003	0.0002	0.0002
Mean, mm	0.007	0.005	0.005
Sorting	2.262	1.737	1.762
Skewness	0.977	0.013	-0.025
Kurtosis	0.193	0.697	1.026

Grain Size Description (ASTM-USCS Scale)	Silt (based on Mean from Trask)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	3.18
Silt	>0.005 mm	49.46
Clay	<0.005 mm	47.36
	Total	**100**

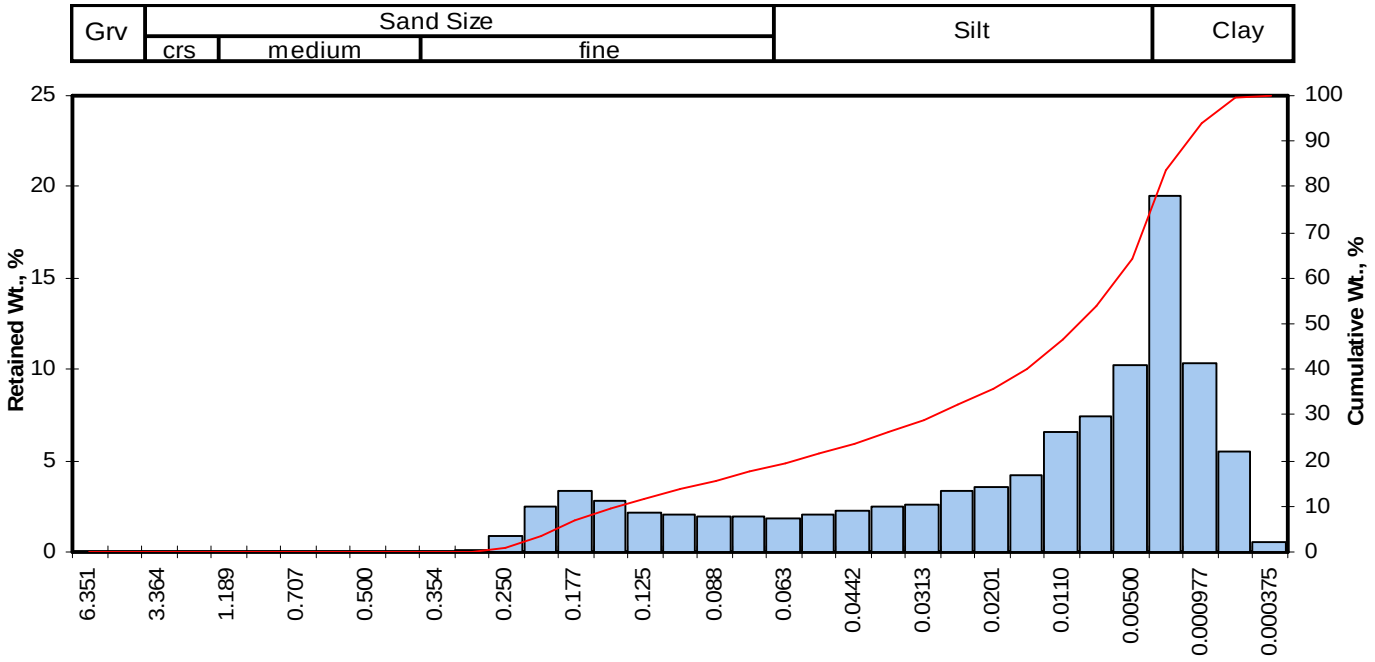
Phone: (562) 907-3607 Fax: (562) 907-3610

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client: Apex TITAN, Inc.
Project: Largo CS
Project No: N/A

PTS File No: 17-103
Sample ID: SB-97
Depth, ft: 11.5-11.8



Particle Size, mm

Opening Inches	Opening Millimeters	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0468	1.189	-0.25	16	0.00	0.00	0.00
0.0331	0.841	0.25	20	0.00	0.00	0.00
0.0278	0.707	0.50	25	0.00	0.00	0.00
0.0234	0.595	0.75	30	0.00	0.00	0.00
0.0197	0.500	1.00	35	0.00	0.00	0.00
0.0166	0.420	1.25	40	0.00	0.00	0.00
0.0139	0.354	1.50	45	0.00	0.00	0.00
0.0117	0.297	1.75	50	0.08	0.08	0.08
0.0098	0.250	2.00	60	0.84	0.84	0.92
0.0083	0.210	2.25	70	2.46	2.46	3.38
0.0070	0.177	2.50	80	3.33	3.33	6.71
0.0059	0.149	2.75	100	2.81	2.81	9.52
0.0049	0.125	3.00	120	2.17	2.17	11.68
0.0041	0.105	3.25	140	2.02	2.02	13.70
0.0035	0.088	3.50	170	1.98	1.98	15.68
0.0029	0.074	3.75	200	1.89	1.89	17.57
0.0025	0.063	4.00	230	1.87	1.87	19.44
0.0021	0.053	4.25	270	2.00	2.00	21.44
0.00174	0.0442	4.50	325	2.26	2.26	23.70
0.00146	0.0372	4.75	400	2.50	2.50	26.20
0.00123	0.0313	5.00	450	2.62	2.62	28.82
0.000986	0.0250	5.32	500	3.39	3.39	32.20
0.000790	0.0201	5.64	635	3.51	3.51	35.71
0.000615	0.0156	6.00		4.20	4.20	39.91
0.000435	0.0110	6.50		6.59	6.59	46.50
0.000308	0.00781	7.00		7.48	7.48	53.97
0.000197	0.00500	7.65		10.20	10.19	64.17
0.000077	0.00195	9.00		19.50	19.49	83.66
0.000038	0.000977	10.00		10.30	10.29	93.95
0.000019	0.000488	11.00		5.49	5.49	99.44
0.000015	0.000375	11.38		0.56	0.56	100.00
TOTALS				**100.10**	**100.00**	**100.00**

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	2.37	0.0076	0.193
10	2.81	0.0056	0.143
16	3.54	0.0034	0.086
25	4.63	0.0016	0.040
40	6.01	0.0006	0.016
50	6.73	0.0004	0.009
60	7.38	0.0002	0.006
75	8.40	0.0001	0.003
84	9.03	0.0001	0.002
90	9.62	0.0001	0.001
95	10.19	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	6.73	6.73	6.73
Median, in.	0.0004	0.0004	0.0004
Median, mm	0.009	0.009	0.009
Mean, phi	5.53	6.29	6.44
Mean, in.	0.0009	0.0005	0.0005
Mean, mm	0.022	0.013	0.012
Sorting	3.691	2.746	2.557
Skewness	1.165	-0.163	-0.139
Kurtosis	0.132	0.424	0.850
Grain Size Description (ASTM-USCS Scale)		Silt (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	0.00
Fine Sand	200	17.57
Silt	>0.005 mm	46.60
Clay	<0.005 mm	35.83
	Total	**100**

PTS Laboratories

PTS File No: 17-103
Client: PTS Houston
Report Date: 07/19/17

ORGANIC CARBON DATA - TOC (foc)

(Methodology: Walkley-Black)

Project Name: Largo CS Project
Project No: 17-103

SAMPLE ID.	DEPTH, ft.	ANALYSIS DATE	ANALYSIS TIME	SAMPLE MATRIX	TOTAL ORGANIC CARBON, mg/kg	FRACTION ORGANIC CARBON, g/g
SB-107	7.7-8.0	20170714	1011	SOIL	4750	4.75E-03
SB-97	11.5-11.8	20170714	1011	SOIL	840	8.40E-04
Blank	N/A	20170714	1011	BLANK	ND	ND
SRM D093-542	N/A	20170714	1011	SRM	6230	6.23E-03
				Reporting Limit:	100	1.00E-04

QC DATA

SRM ID/Lot No.	REC (%)	Control Limits	Certified Concentration mg/kg	QC Performance Acceptance Limits, mg/kg Lower	Upper
SRM D094-542	87	75-125	7150	5363	8938

ND = Not Detected

CHAIN OF CUSTODY RECORD

APEX

Office Location: Aztec, NM

Project Manager: K. Summers

Laboratory: PTS

Address: 5730 Centralcrest St. Houston TX 77092

Contact:

Phone: 562-347-2500

PO/SO #: 7250401121 54

Sampler's Name: Ranee Deechilly

Sampler's Signature: Ranee Deechilly

Proj. No.

Project Name: Largo CS

No/Type of Containers

ANALYSIS REQUESTED: New Mexico RBDM

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	6/19/17	1200			SB-107							2	X
S	6/19/17	1410			SB-97							2	X

NES

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Ranee Deechilly	6/20/17	1330	Nick Fehrenbacher	6/22/17	1250
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:

NOTES: Call Kyle Summers with Questions 903-821-5603

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 02, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1707713

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/14/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1707713**
Date Reported: **8/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-7
Project: Largo Compressor Station **Collection Date:** 7/13/2017 2:20:00 PM
Lab ID: 1707713-001 **Matrix:** AQUEOUS **Received Date:** 7/14/2017 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	200	10		mg/L	20	7/14/2017 7:23:02 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	7/14/2017 7:10:37 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	7/14/2017 7:10:37 PM
Sulfate	10000	250	*	mg/L	500	7/25/2017 8:27:42 PM
SM5210B: BOD						Analyst: **SMS**
Biochemical Oxygen Demand	14	2.0		mg/L	1	7/19/2017 6:06:00 PM

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

Qualifiers:

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

Analytical Report
Lab Order **1707713**
Date Reported: **8/2/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-37
Project: Largo Compressor Station **Collection Date:** 7/13/2017 3:30:00 PM
Lab ID: 1707713-002 **Matrix:** AQUEOUS **Received Date:** 7/14/2017 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SM5210B: BOD						Analyst: **SMS**
Biochemical Oxygen Demand	450	2.0		mg/L	1	7/19/2017 6:06:00 PM

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

Qualifiers:

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

1707713-001C MW-7
Collected date/time: 07/13/17 14:20

SAMPLE RESULTS - 01

L923066

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	190		10.0	1	07/20/2017 16:49	WG1000552

1 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.

1707713-002B MW-37
Collected date/time: 07/13/17 15:30

L923066

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	292		10.0	1	07/20/2017 16:49	WG1000552

WG1000552

Wet Chemistry by Method 410.4

QUALITY CONTROL SUMMARY

L923066-01,02

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3234947-1 07/20/17 16:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
COD	U		3	10.0

L922764-10 Original Sample (OS) • Duplicate (DUP)

(OS) L922764-10 07/20/17 16:48 • (DUP) R3234947-6 07/20/17 16:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
COD	62.9	62.0	1	2		20

L923318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L923318-01 07/20/17 16:52 • (DUP) R3234947-7 07/20/17 16:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
COD	246	246	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234947-2 07/20/17 16:46 • (LCSD) R3234947-3 07/20/17 16:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
COD	242	225	225	93	93	90-110			0	20

L922691-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L922691-01 07/20/17 16:47 • (MS) R3234947-4 07/20/17 16:47 • (MSD) R3234947-5 07/20/17 16:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
COD	400	265	650	649	96	96	1	80-120			0	20

GLOSSARY OF TERMS

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1707713**
02-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R44224**	RunNo: **44224**
Prep Date:	Analysis Date: **7/14/2017**	SeqNo: **1397487** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R44224**	RunNo: **44224**
Prep Date:	Analysis Date: **7/14/2017**	SeqNo: **1397488** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Nitrogen, Nitrite (As N)	0.95	0.10	1.000	0	95.0	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	100	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A44517**	RunNo: **44517**
Prep Date:	Analysis Date: **7/25/2017**	SeqNo: **1407665** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A44517**	RunNo: **44517**
Prep Date:	Analysis Date: **7/25/2017**	SeqNo: **1407666** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.7	0.50	10.00	0	97.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1707713**
02-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **MB-32815** SampType: **MBLK** TestCode: **SM5210B: BOD**
Client ID: **PBW** Batch ID: **32815** RunNo: **44419**
Prep Date: **7/14/2017** Analysis Date: **7/19/2017** SeqNo: **1403837** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID **MB--32815** SampType: **MBLK** TestCode: **SM5210B: BOD**
Client ID: **PBW** Batch ID: **32815** RunNo: **44419**
Prep Date: **7/14/2017** Analysis Date: **7/19/2017** SeqNo: **1403838** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	ND	2.0								

Sample ID **LCS-32815** SampType: **LCS** TestCode: **SM5210B: BOD**
Client ID: **LCSW** Batch ID: **32815** RunNo: **44419**
Prep Date: **7/14/2017** Analysis Date: **7/19/2017** SeqNo: **1403839** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	230	2.0	198.0	0	117	58.5	126			

Sample ID **LCSD-32815** SampType: **LCSD** TestCode: **SM5210B: BOD**
Client ID: **LCSS02** Batch ID: **32815** RunNo: **44419**
Prep Date: **7/14/2017** Analysis Date: **7/19/2017** SeqNo: **1403840** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Biochemical Oxygen Demand	150	2.0	198.0	0	73.3	58.5	126	45.7	34.6	R

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1707713 RcptNo: 1

Received By: Anne Thorne 7/14/2017 7:05:00 AM Anne Thorne
Completed By: Anne Thorne 7/14/2017 1:12:39 PM Anne Thorne
Reviewed By: aj 7/14/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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: 3 (<2 or >12 unless noted)
Adjusted?
Checked by: AT 07/14/17

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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location Aztec, NM
606 S. Rio Grande Unit A

Project Manager K Summers

Laboratory: Hall Environmental Analysis laboratory
Address: 4901 Hawkins NE
Albuquerque, NM 87109
Contact: A. Freeman
Phone: 505-345-3975
PO/SO #: 725040112154

Sampler's Name: Ranee Deechilly, Chad D'Apanti
Sampler's Signature: Ranee Deechilly

Proj. No.: 725040112154
Project Name: Largo Compressor station

ANALYSIS REQUESTED: BOD, COD, SM 5210B, Sulfate, EPA Method 300.0, Chloride, EPA Method 410.4, Nitrate Nitrite

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	7/13/17	1420			mw-7							4	170713-001
W	7/13/17	1530			mw-37							2	002

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/13/17	1755		7/13/17	1755
	7/13/17	1818		07/14/17	0705

NOTES:
Bill to Apex corporate rate

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 28, 2017

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

RE: Largo Compressor Station OrderNo.: 1707765

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/15/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1707765**
Date Reported: **7/28/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: MW-37
Project: Largo Compressor Station
Collection Date: 7/14/2017 9:00:00 AM
Lab ID: 1707765-001
Matrix: AQUEOUS
Received Date: 7/15/2017 11:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	53	2.5		mg/L	5	7/18/2017 4:22:01 AM	A44291
Sulfate	3600	50	*	mg/L	100	7/25/2017 3:29:54 PM	R44517
Nitrate+Nitrite as N	ND	1.0		mg/L	5	7/18/2017 4:46:50 AM	A44291

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1707765**

28-Jul-17

Client: APEX TITAN

Project: Largo Compressor Station

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A44291**	RunNo: **44291**
Prep Date:	Analysis Date: **7/17/2017**	SeqNo: **1398671** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **A44291**	RunNo: **44291**
Prep Date:	Analysis Date: **7/17/2017**	SeqNo: **1398672** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.9	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	98.5	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R44517**	RunNo: **44517**
Prep Date:	Analysis Date: **7/25/2017**	SeqNo: **1407634** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R44517**	RunNo: **44517**
Prep Date:	Analysis Date: **7/25/2017**	SeqNo: **1407635** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.5	0.50	10.00	0	95.0	90	110			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1707765 RcptNo: 1

Received By: Andy Freeman 7/15/2017 11:20:00 AM

Completed By: Anne Thorne 7/17/2017 8:30:22 AM

Reviewed By: 07/17/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? 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 ☐	Checked by: Re

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	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suit A Aztec N.M 87410

Project Manager K. Summers

Laboratory: Hall Environmental Laboratory

Address: 4901 Hawkins NE Albuquerque N.M. 87109

Contact: A Fiedmann

Phone: 505-345-3975

PO/SO #: 725040 112182

Sampler's Name: Chad D'Apont

Sampler's Signature:

Lab use only
Due Date

Temp. of coolers when received (C°): 2.3C

1 2 3 4 5

Page 1 of 1

Proj. No.: 725040 112182

Project Name: Largo Compressor Station

Matrix	Date	Time	Composite	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	Analysis Requested: Sulfate, Chloride, EPA 300.0; Nitrate / Nitrite	Lab Sample ID (Lab Use Only)
W	7/14/17	9:00			MW-37							2	X X	1707765-001

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7-14-17	1217		7/14/17	1217
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/14/17	1810		7/15/17	1120
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:

Bill to Apex

Corp Rate

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Dr Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 10, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1807149

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/4/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-110 @ 9'-10'
Project: Largo CS **Collection Date:** 7/2/2018 11:30:00 AM
Lab ID: 1807149-001 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/9/2018 11:17:50 AM	39082
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2018 11:17:50 AM	39082
Surr: DNOP	99.6	70-130		%Rec	1	7/9/2018 11:17:50 AM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/7/2018 4:09:45 AM	39060
Surr: BFB	95.0	15-316		%Rec	1	7/7/2018 4:09:45 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/7/2018 4:09:45 AM	39060
Toluene	ND	0.048		mg/Kg	1	7/7/2018 4:09:45 AM	39060
Ethylbenzene	ND	0.048		mg/Kg	1	7/7/2018 4:09:45 AM	39060
Xylenes, Total	ND	0.095		mg/Kg	1	7/7/2018 4:09:45 AM	39060
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/7/2018 4:09:45 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-110 @ 10'-11'
Project: Largo CS **Collection Date:** 7/2/2018 11:40:00 AM
Lab ID: 1807149-002 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2018 12:31:31 PM	39082
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2018 12:31:31 PM	39082
Surr: DNOP	94.3	70-130		%Rec	1	7/9/2018 12:31:31 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2018 4:32:58 AM	39060
Surr: BFB	88.9	15-316		%Rec	1	7/7/2018 4:32:58 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/7/2018 4:32:58 AM	39060
Toluene	ND	0.049		mg/Kg	1	7/7/2018 4:32:58 AM	39060
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2018 4:32:58 AM	39060
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2018 4:32:58 AM	39060
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/7/2018 4:32:58 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-112 @ 5'-6'
Project: Largo CS **Collection Date:** 7/2/2018 1:30:00 PM
Lab ID: 1807149-003 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2018 12:56:08 PM	39082
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2018 12:56:08 PM	39082
Surr: DNOP	99.3	70-130		%Rec	1	7/9/2018 12:56:08 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/7/2018 4:56:06 AM	39060
Surr: BFB	89.4	15-316		%Rec	1	7/7/2018 4:56:06 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/7/2018 4:56:06 AM	39060
Toluene	ND	0.046		mg/Kg	1	7/7/2018 4:56:06 AM	39060
Ethylbenzene	ND	0.046		mg/Kg	1	7/7/2018 4:56:06 AM	39060
Xylenes, Total	ND	0.092		mg/Kg	1	7/7/2018 4:56:06 AM	39060
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/7/2018 4:56:06 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-112 @ 7'-8'
Project: Largo CS **Collection Date:** 7/2/2018 1:35:00 PM
Lab ID: 1807149-004 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	270	9.8		mg/Kg	1	7/9/2018 1:20:43 PM	39082
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	7/9/2018 1:20:43 PM	39082
Surr: DNOP	109	70-130		%Rec	1	7/9/2018 1:20:43 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	4100	97		mg/Kg	20	7/9/2018 10:07:14 AM	39060
Surr: BFB	1180	15-316	S	%Rec	20	7/9/2018 10:07:14 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/7/2018 5:42:40 AM	39060
Toluene	0.69	0.048		mg/Kg	1	7/7/2018 5:42:40 AM	39060
Ethylbenzene	15	0.97		mg/Kg	20	7/9/2018 10:07:14 AM	39060
Xylenes, Total	82	1.9		mg/Kg	20	7/9/2018 10:07:14 AM	39060
Surr: 4-Bromofluorobenzene	152	80-120	S	%Rec	20	7/9/2018 10:07:14 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-112 @ 8'-9'
Project: Largo CS **Collection Date:** 7/2/2018 1:40:00 PM
Lab ID: 1807149-005 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	60	9.9		mg/Kg	1	7/9/2018 1:45:33 PM	39082
Motor Oil Range Organics (MRO)	68	49		mg/Kg	1	7/9/2018 1:45:33 PM	39082
Surr: DNOP	103	70-130		%Rec	1	7/9/2018 1:45:33 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	330	4.8		mg/Kg	1	7/7/2018 6:29:21 AM	39060
Surr: BFB	2250	15-316	S	%Rec	1	7/7/2018 6:29:21 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/7/2018 6:29:21 AM	39060
Toluene	0.067	0.048		mg/Kg	1	7/7/2018 6:29:21 AM	39060
Ethylbenzene	1.1	0.048		mg/Kg	1	7/7/2018 6:29:21 AM	39060
Xylenes, Total	4.5	0.097		mg/Kg	1	7/7/2018 6:29:21 AM	39060
Surr: 4-Bromofluorobenzene	334	80-120	S	%Rec	1	7/7/2018 6:29:21 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-112 @ 9'-10'
Project: Largo CS **Collection Date:** 7/2/2018 1:45:00 PM
Lab ID: 1807149-006 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2018 2:10:06 PM	39082
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2018 2:10:06 PM	39082
Surr: DNOP	101	70-130		%Rec	1	7/9/2018 2:10:06 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	13	4.6		mg/Kg	1	7/7/2018 6:52:42 AM	39060
Surr: BFB	166	15-316		%Rec	1	7/7/2018 6:52:42 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/7/2018 6:52:42 AM	39060
Toluene	ND	0.046		mg/Kg	1	7/7/2018 6:52:42 AM	39060
Ethylbenzene	0.050	0.046		mg/Kg	1	7/7/2018 6:52:42 AM	39060
Xylenes, Total	0.15	0.093		mg/Kg	1	7/7/2018 6:52:42 AM	39060
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	7/7/2018 6:52:42 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-113 @ 3'-4'
Project: Largo CS **Collection Date:** 7/2/2018 2:30:00 PM
Lab ID: 1807149-007 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/9/2018 2:34:48 PM	39082
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2018 2:34:48 PM	39082
Surr: DNOP	96.5	70-130		%Rec	1	7/9/2018 2:34:48 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2018 8:26:03 AM	39060
Surr: BFB	92.9	15-316		%Rec	1	7/7/2018 8:26:03 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/7/2018 8:26:03 AM	39060
Toluene	ND	0.049		mg/Kg	1	7/7/2018 8:26:03 AM	39060
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2018 8:26:03 AM	39060
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2018 8:26:03 AM	39060
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/7/2018 8:26:03 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-113 @ 9'-10'
Project: Largo CS **Collection Date:** 7/2/2018 2:40:00 PM
Lab ID: 1807149-008 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/9/2018 2:59:21 PM	39082
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2018 2:59:21 PM	39082
Surr: DNOP	95.7	70-130		%Rec	1	7/9/2018 2:59:21 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/7/2018 8:49:24 AM	39060
Surr: BFB	90.9	15-316		%Rec	1	7/7/2018 8:49:24 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/7/2018 8:49:24 AM	39060
Toluene	ND	0.048		mg/Kg	1	7/7/2018 8:49:24 AM	39060
Ethylbenzene	ND	0.048		mg/Kg	1	7/7/2018 8:49:24 AM	39060
Xylenes, Total	ND	0.096		mg/Kg	1	7/7/2018 8:49:24 AM	39060
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/7/2018 8:49:24 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-111 @ 12.5'
Project: Largo CS **Collection Date:** 7/2/2018 1:30:00 PM
Lab ID: 1807149-009 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2018 3:48:50 PM	39082
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2018 3:48:50 PM	39082
Surr: DNOP	97.6	70-130		%Rec	1	7/9/2018 3:48:50 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2018 9:12:44 AM	39060
Surr: BFB	89.8	15-316		%Rec	1	7/7/2018 9:12:44 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/7/2018 9:12:44 AM	39060
Toluene	ND	0.050		mg/Kg	1	7/7/2018 9:12:44 AM	39060
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2018 9:12:44 AM	39060
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2018 9:12:44 AM	39060
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/7/2018 9:12:44 AM	39060

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

Qualifiers:

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

Analytical Report
Lab Order **1807149**
Date Reported: **7/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-109 @ 9'
Project: Largo CS **Collection Date:** 7/2/2018 11:00:00 AM
Lab ID: 1807149-010 **Matrix:** SOIL **Received Date:** 7/4/2018 9:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2018 4:13:28 PM	39082
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2018 4:13:28 PM	39082
Surr: DNOP	100	70-130		%Rec	1	7/9/2018 4:13:28 PM	39082
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/7/2018 9:36:01 AM	39060
Surr: BFB	90.0	15-316		%Rec	1	7/7/2018 9:36:01 AM	39060
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/7/2018 9:36:01 AM	39060
Toluene	ND	0.046		mg/Kg	1	7/7/2018 9:36:01 AM	39060
Ethylbenzene	ND	0.046		mg/Kg	1	7/7/2018 9:36:01 AM	39060
Xylenes, Total	ND	0.092		mg/Kg	1	7/7/2018 9:36:01 AM	39060
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/7/2018 9:36:01 AM	39060

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1807149**
10-Jul-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**LCS-39082**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**39082**		RunNo:	**52529**				
Prep Date:	**7/6/2018**	Analysis Date:	**7/9/2018**		SeqNo:	**1723518**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	95.0	70	130			
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID	**MB-39082**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**39082**		RunNo:	**52529**				
Prep Date:	**7/6/2018**	Analysis Date:	**7/9/2018**		SeqNo:	**1723519**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1807149**
10-Jul-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-39050**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**39050**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722508**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		96.0	15	316			

Sample ID	**LCS-39050**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**39050**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722509**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	15	316			

Sample ID	**MB-39060**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**39060**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722527**	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	950		1000		95.1	15	316			

Sample ID	**LCS-39060**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**39060**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722528**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.1	75.9	131			
Surr: BFB	1000		1000		103	15	316			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807149**

10-Jul-18

Client: Apex Titan, Inc.

Project: Largo CS

Sample ID	**MB-39050**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**39050**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722550**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	**LCS-39050**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**39050**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722551**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	**MB-39060**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**39060**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722567**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	**LCS-39060**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**39060**	RunNo:	**52519**					
Prep Date:	**7/5/2018**	Analysis Date:	**7/6/2018**	SeqNo:	**1722568**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	77.3	128			
Toluene	0.93	0.050	1.000	0	92.6	79.2	125			
Ethylbenzene	0.90	0.050	1.000	0	90.4	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.6	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1807149 RcptNo: 1

Received By: Andy Freeman 7/4/2018 9:55:00 AM

Completed By: Anne Thorne 7/5/2018 10:19:57 AM

Reviewed By: 07/05/18

Labeled by: 7/5/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑

# of preserved bottles checked for pH: 10 (<2 or >12 unless noted)

Adjusted? 15

Checked by:

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

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

Person Notified: Date

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

Regarding:

Client Instructions:

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 7/5/18

17. **Cooler Information**

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

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S. Rio Grande, Suite 4, Aztec, NM 87410

Project Manager: K. Summers

Laboratory: Hall Environmental Analysis Laboratory

Address: 4901 Hawkins NE, Albuquerque, NM 87109

Contact: A. Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Ranee Deechilly CO Apont

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo CS

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO 5035

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.7 C

1 2 3 4 5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	7/2/18	1130			SB-110 @ 9'-10'						1		807149-001
S	7/2/18	1140			SB-110 @ 10'-11'						1		002
S	7/2/18	1330			SB-112 @ 5'-6'						1		003
S	7/2/18	1335			SB-112 @ 7'-8'						1		004
S	7/2/18	1340			SB-112 @ 8'-9'						1		005
S	7/2/18	1345			SB-112 @ 9'-10'						1		006
S	7/2/18	1430			SB-113 @ 3'-4'						1		007
S	7/2/18	1440			SB-113 @ 9'-10'						1		008
S	7/2/18	1330			SB-111 @ 12.5'						1		009
S	7/2/18	1100			SB-109 @ 9'						1		010

Turn around time: ~~Normal~~ ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	7/3/18	1252	Mat Walt	7/3/18	1252
Relinquished by (Signature) Mat Walt	7/3/18	1744		7/4/18	0955
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Apex Corporate rate

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

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

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

September 19, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1809292

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 9/6/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-114 @ 8'-10'
Project: Largo CS **Collection Date:** 9/4/2018 11:55:00 AM
Lab ID: 1809292-001 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 3:48:12 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/11/2018 6:10:54 PM	40253
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/11/2018 6:10:54 PM	40253
Surr: DNOP	116	50.6-138		%Rec	1	9/11/2018 6:10:54 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2018 10:57:53 AM	40219
Surr: BFB	86.5	15-316		%Rec	1	9/9/2018 10:57:53 AM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 10:57:53 AM	40219
Toluene	ND	0.049		mg/Kg	1	9/9/2018 10:57:53 AM	40219
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2018 10:57:53 AM	40219
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2018 10:57:53 AM	40219
Surr: 4-Bromofluorobenzene	81.4	80-120		%Rec	1	9/9/2018 10:57:53 AM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-114 @ 10'-12'
Project: Largo CS **Collection Date:** 9/4/2018 12:00:00 PM
Lab ID: 1809292-002 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 4:00:36 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2018 7:17:24 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 7:17:24 PM	40253
Surr: DNOP	117	50.6-138		%Rec	1	9/11/2018 7:17:24 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/9/2018 12:07:54 PM	40219
Surr: BFB	83.3	15-316		%Rec	1	9/9/2018 12:07:54 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 12:07:54 PM	40219
Toluene	ND	0.047		mg/Kg	1	9/9/2018 12:07:54 PM	40219
Ethylbenzene	ND	0.047		mg/Kg	1	9/9/2018 12:07:54 PM	40219
Xylenes, Total	ND	0.095		mg/Kg	1	9/9/2018 12:07:54 PM	40219
Surr: 4-Bromofluorobenzene	79.2	80-120	S	%Rec	1	9/9/2018 12:07:54 PM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-115 @ 8'-10'
Project: Largo CS **Collection Date:** 9/4/2018 12:35:00 PM
Lab ID: 1809292-003 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	220	30		mg/Kg	20	9/18/2018 4:13:01 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2018 7:39:25 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 7:39:25 PM	40253
Surr: DNOP	116	50.6-138		%Rec	1	9/11/2018 7:39:25 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/9/2018 1:17:56 PM	40219
Surr: BFB	83.2	15-316		%Rec	1	9/9/2018 1:17:56 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 1:17:56 PM	40219
Toluene	ND	0.048		mg/Kg	1	9/9/2018 1:17:56 PM	40219
Ethylbenzene	ND	0.048		mg/Kg	1	9/9/2018 1:17:56 PM	40219
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2018 1:17:56 PM	40219
Surr: 4-Bromofluorobenzene	77.9	80-120	S	%Rec	1	9/9/2018 1:17:56 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-115 @ 11'-12'
Project: Largo CS **Collection Date:** 9/4/2018 12:40:00 PM
Lab ID: 1809292-004 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	39	30		mg/Kg	20	9/18/2018 4:50:14 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/11/2018 8:01:29 PM	40253
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/11/2018 8:01:29 PM	40253
Surr: DNOP	117	50.6-138		%Rec	1	9/11/2018 8:01:29 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2018 1:41:18 PM	40219
Surr: BFB	82.6	15-316		%Rec	1	9/9/2018 1:41:18 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/9/2018 1:41:18 PM	40219
Toluene	ND	0.049		mg/Kg	1	9/9/2018 1:41:18 PM	40219
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2018 1:41:18 PM	40219
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2018 1:41:18 PM	40219
Surr: 4-Bromofluorobenzene	77.3	80-120	S	%Rec	1	9/9/2018 1:41:18 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-116 @ 6'-10'
Project: Largo CS **Collection Date:** 9/4/2018 1:15:00 PM
Lab ID: 1809292-005 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	98	30		mg/Kg	20	9/18/2018 5:02:39 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	56	9.6		mg/Kg	1	9/11/2018 8:23:32 PM	40253
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/11/2018 8:23:32 PM	40253
Surr: DNOP	122	50.6-138		%Rec	1	9/11/2018 8:23:32 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	3300	49		mg/Kg	10	9/9/2018 2:04:39 PM	40219
Surr: BFB	581	15-316	S	%Rec	10	9/9/2018 2:04:39 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	1.3	0.24		mg/Kg	10	9/9/2018 2:04:39 PM	40219
Toluene	23	0.49		mg/Kg	10	9/9/2018 2:04:39 PM	40219
Ethylbenzene	7.2	0.49		mg/Kg	10	9/9/2018 2:04:39 PM	40219
Xylenes, Total	72	0.98		mg/Kg	10	9/9/2018 2:04:39 PM	40219
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	10	9/9/2018 2:04:39 PM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-116 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 1:20:00 PM
Lab ID: 1809292-006 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 5:15:03 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/11/2018 8:45:40 PM	40253
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/11/2018 8:45:40 PM	40253
Surr: DNOP	117	50.6-138		%Rec	1	9/11/2018 8:45:40 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	8.6	4.8		mg/Kg	1	9/9/2018 2:27:59 PM	40219
Surr: BFB	99.0	15-316		%Rec	1	9/9/2018 2:27:59 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 2:27:59 PM	40219
Toluene	0.048	0.048		mg/Kg	1	9/9/2018 2:27:59 PM	40219
Ethylbenzene	ND	0.048		mg/Kg	1	9/9/2018 2:27:59 PM	40219
Xylenes, Total	0.12	0.095		mg/Kg	1	9/9/2018 2:27:59 PM	40219
Surr: 4-Bromofluorobenzene	79.5	80-120	S	%Rec	1	9/9/2018 2:27:59 PM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-117 @ 6'-8'
Project: Largo CS **Collection Date:** 9/4/2018 2:20:00 PM
Lab ID: 1809292-007 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	100	30		mg/Kg	20	9/18/2018 5:27:28 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	190	10		mg/Kg	1	9/11/2018 9:07:43 PM	40253
Motor Oil Range Organics (MRO)	67	50		mg/Kg	1	9/11/2018 9:07:43 PM	40253
Surr: DNOP	85.0	50.6-138		%Rec	1	9/11/2018 9:07:43 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	5000	490		mg/Kg	100	9/10/2018 10:48:13 PM	40219
Surr: BFB	202	15-316		%Rec	100	9/10/2018 10:48:13 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	2.5	0.25		mg/Kg	10	9/9/2018 2:51:20 PM	40219
Toluene	1.4	0.49		mg/Kg	10	9/9/2018 2:51:20 PM	40219
Ethylbenzene	17	0.49		mg/Kg	10	9/9/2018 2:51:20 PM	40219
Xylenes, Total	160	9.8		mg/Kg	100	9/10/2018 10:48:13 PM	40219
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	10	9/9/2018 2:51:20 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-117 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 2:15:00 PM
Lab ID: 1809292-008 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/18/2018 5:39:52 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2018 9:29:47 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 9:29:47 PM	40253
Surr: DNOP	121	50.6-138		%Rec	1	9/11/2018 9:29:47 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2018 3:14:43 PM	40219
Surr: BFB	85.6	15-316		%Rec	1	9/9/2018 3:14:43 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/9/2018 3:14:43 PM	40219
Toluene	ND	0.049		mg/Kg	1	9/9/2018 3:14:43 PM	40219
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2018 3:14:43 PM	40219
Xylenes, Total	ND	0.098		mg/Kg	1	9/9/2018 3:14:43 PM	40219
Surr: 4-Bromofluorobenzene	77.1	80-120	S	%Rec	1	9/9/2018 3:14:43 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-118 @ 8'-10.5'
Project: Largo CS **Collection Date:** 9/4/2018 2:45:00 PM
Lab ID: 1809292-009 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	59	30		mg/Kg	20	9/18/2018 6:17:05 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	9/11/2018 9:51:50 PM	40253
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/11/2018 9:51:50 PM	40253
Surr: DNOP	120	50.6-138		%Rec	1	9/11/2018 9:51:50 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	1500	50		mg/Kg	10	9/9/2018 3:38:05 PM	40219
Surr: BFB	393	15-316	S	%Rec	10	9/9/2018 3:38:05 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	1.3	0.25		mg/Kg	10	9/9/2018 3:38:05 PM	40219
Toluene	ND	0.50		mg/Kg	10	9/9/2018 3:38:05 PM	40219
Ethylbenzene	4.2	0.50		mg/Kg	10	9/9/2018 3:38:05 PM	40219
Xylenes, Total	39	0.99		mg/Kg	10	9/9/2018 3:38:05 PM	40219
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	10	9/9/2018 3:38:05 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-118 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 2:50:00 PM
Lab ID: 1809292-010 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 6:29:30 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2018 10:13:57 PM	40253
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/11/2018 10:13:57 PM	40253
Surr: DNOP	119	50.6-138		%Rec	1	9/11/2018 10:13:57 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/9/2018 4:01:28 PM	40219
Surr: BFB	84.2	15-316		%Rec	1	9/9/2018 4:01:28 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 4:01:28 PM	40219
Toluene	ND	0.048		mg/Kg	1	9/9/2018 4:01:28 PM	40219
Ethylbenzene	ND	0.048		mg/Kg	1	9/9/2018 4:01:28 PM	40219
Xylenes, Total	ND	0.097		mg/Kg	1	9/9/2018 4:01:28 PM	40219
Surr: 4-Bromofluorobenzene	76.6	80-120	S	%Rec	1	9/9/2018 4:01:28 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-119 @ 8'-10'
Project: Largo CS **Collection Date:** 9/4/2018 3:35:00 PM
Lab ID: 1809292-011 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	83	30		mg/Kg	20	9/18/2018 6:41:55 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/11/2018 10:35:56 PM	40253
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/11/2018 10:35:56 PM	40253
Surr: DNOP	129	50.6-138		%Rec	1	9/11/2018 10:35:56 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	280	49		mg/Kg	10	9/9/2018 7:31:27 PM	40219
Surr: BFB	138	15-316		%Rec	10	9/9/2018 7:31:27 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	0.20	0.20		mg/Kg	10	9/9/2018 7:31:27 PM	40219
Toluene	1.5	0.49		mg/Kg	10	9/9/2018 7:31:27 PM	40219
Ethylbenzene	0.77	0.49		mg/Kg	10	9/9/2018 7:31:27 PM	40219
Xylenes, Total	9.9	0.99		mg/Kg	10	9/9/2018 7:31:27 PM	40219
Surr: 4-Bromofluorobenzene	77.3	80-120	S	%Rec	10	9/9/2018 7:31:27 PM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-119 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 3:30:00 PM
Lab ID: 1809292-012 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 7:19:08 PM	40409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2018 10:58:05 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 10:58:05 PM	40253
Surr: DNOP	121	50.6-138		%Rec	1	9/11/2018 10:58:05 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/9/2018 7:54:44 PM	40219
Surr: BFB	76.7	15-316		%Rec	1	9/9/2018 7:54:44 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	9/9/2018 7:54:44 PM	40219
Toluene	ND	0.046		mg/Kg	1	9/9/2018 7:54:44 PM	40219
Ethylbenzene	ND	0.046		mg/Kg	1	9/9/2018 7:54:44 PM	40219
Xylenes, Total	ND	0.093		mg/Kg	1	9/9/2018 7:54:44 PM	40219
Surr: 4-Bromofluorobenzene	71.5	80-120	S	%Rec	1	9/9/2018 7:54:44 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-120 @ 8'-9'
Project: Largo CS **Collection Date:** 9/4/2018 3:55:00 PM
Lab ID: 1809292-013 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	89	30		mg/Kg	20	9/18/2018 10:12:51 PM	40420
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/11/2018 11:20:07 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 11:20:07 PM	40253
Surr: DNOP	128	50.6-138		%Rec	1	9/11/2018 11:20:07 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2018 8:17:56 PM	40219
Surr: BFB	79.0	15-316		%Rec	1	9/9/2018 8:17:56 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/9/2018 8:17:56 PM	40219
Toluene	ND	0.050		mg/Kg	1	9/9/2018 8:17:56 PM	40219
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2018 8:17:56 PM	40219
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2018 8:17:56 PM	40219
Surr: 4-Bromofluorobenzene	72.6	80-120	S	%Rec	1	9/9/2018 8:17:56 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-120 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 4:00:00 PM
Lab ID: 1809292-014 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 10:25:16 PM	40420
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/11/2018 11:42:15 PM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/11/2018 11:42:15 PM	40253
Surr: DNOP	121	50.6-138		%Rec	1	9/11/2018 11:42:15 PM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/9/2018 8:41:11 PM	40219
Surr: BFB	77.3	15-316		%Rec	1	9/9/2018 8:41:11 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/9/2018 8:41:11 PM	40219
Toluene	ND	0.048		mg/Kg	1	9/9/2018 8:41:11 PM	40219
Ethylbenzene	ND	0.048		mg/Kg	1	9/9/2018 8:41:11 PM	40219
Xylenes, Total	ND	0.095		mg/Kg	1	9/9/2018 8:41:11 PM	40219
Surr: 4-Bromofluorobenzene	72.3	80-120	S	%Rec	1	9/9/2018 8:41:11 PM	40219

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

Qualifiers:

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-121 @ 12'-14'
Project: Largo CS **Collection Date:** 9/4/2018 4:35:00 PM
Lab ID: 1809292-015 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	30		mg/Kg	20	9/18/2018 11:02:29 PM	40420
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**lrm**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2018 12:04:07 AM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 12:04:07 AM	40253
Surr: DNOP	132	50.6-138		%Rec	1	9/12/2018 12:04:07 AM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/9/2018 9:04:25 PM	40219
Surr: BFB	75.6	15-316		%Rec	1	9/9/2018 9:04:25 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/9/2018 9:04:25 PM	40219
Toluene	ND	0.050		mg/Kg	1	9/9/2018 9:04:25 PM	40219
Ethylbenzene	ND	0.050		mg/Kg	1	9/9/2018 9:04:25 PM	40219
Xylenes, Total	ND	0.10		mg/Kg	1	9/9/2018 9:04:25 PM	40219
Surr: 4-Bromofluorobenzene	70.7	80-120	S	%Rec	1	9/9/2018 9:04:25 PM	40219

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

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

Analytical Report
Lab Order **1809292**
Date Reported: **9/19/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SB-121 @ 14'-16'
Project: Largo CS **Collection Date:** 9/4/2018 4:30:00 PM
Lab ID: 1809292-016 **Matrix:** SOIL **Received Date:** 9/6/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	9/18/2018 11:14:53 PM	40420
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2018 12:26:15 AM	40253
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 12:26:15 AM	40253
Surr: DNOP	134	50.6-138		%Rec	1	9/12/2018 12:26:15 AM	40253
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/9/2018 9:27:39 PM	40219
Surr: BFB	75.6	15-316		%Rec	1	9/9/2018 9:27:39 PM	40219
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/9/2018 9:27:39 PM	40219
Toluene	ND	0.047		mg/Kg	1	9/9/2018 9:27:39 PM	40219
Ethylbenzene	ND	0.047		mg/Kg	1	9/9/2018 9:27:39 PM	40219
Xylenes, Total	ND	0.093		mg/Kg	1	9/9/2018 9:27:39 PM	40219
Surr: 4-Bromofluorobenzene	70.6	80-120	S	%Rec	1	9/9/2018 9:27:39 PM	40219

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1809292**
19-Sep-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-40409**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**40409**	RunNo:	**54229**					
Prep Date:	**9/18/2018**	Analysis Date:	**9/18/2018**	SeqNo:	**1794815**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-40409**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**40409**	RunNo:	**54229**					
Prep Date:	**9/18/2018**	Analysis Date:	**9/18/2018**	SeqNo:	**1794816**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID	**MB-40420**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**40420**	RunNo:	**54229**					
Prep Date:	**9/18/2018**	Analysis Date:	**9/18/2018**	SeqNo:	**1794864**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-40420**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**40420**	RunNo:	**54229**					
Prep Date:	**9/18/2018**	Analysis Date:	**9/18/2018**	SeqNo:	**1794865**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1809292**
19-Sep-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**LCS-40215**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**40215**		RunNo:	**54038**				
Prep Date:	**9/7/2018**	Analysis Date:	**9/11/2018**		SeqNo:	**1785644**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.0	50.6	138			

Sample ID	**MB-40215**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**40215**		RunNo:	**54038**				
Prep Date:	**9/7/2018**	Analysis Date:	**9/11/2018**		SeqNo:	**1785645**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	50.6	138			

Sample ID	**LCS-40253**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**40253**		RunNo:	**54038**				
Prep Date:	**9/10/2018**	Analysis Date:	**9/11/2018**		SeqNo:	**1787174**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	5.4		5.000		107	50.6	138			

Sample ID	**MB-40253**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**40253**		RunNo:	**54038**				
Prep Date:	**9/10/2018**	Analysis Date:	**9/11/2018**		SeqNo:	**1787175**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		119	50.6	138			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1809292**
19-Sep-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-40219**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**40219**	RunNo:	**54017**					
Prep Date:	**9/7/2018**	Analysis Date:	**9/9/2018**	SeqNo:	**1784268**	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	870		1000		87.2	15	316			

Sample ID	**LCS-40219**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**40219**	RunNo:	**54017**					
Prep Date:	**9/7/2018**	Analysis Date:	**9/9/2018**	SeqNo:	**1784269**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	75.9	131			
Surr: BFB	990		1000		98.5	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1809292**
19-Sep-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-40219**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**40219**	RunNo:	**54017**					
Prep Date:	**9/7/2018**	Analysis Date:	**9/9/2018**	SeqNo:	**1784308**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.4	80	120			

Sample ID	**LCS-40219**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**40219**	RunNo:	**54017**					
Prep Date:	**9/7/2018**	Analysis Date:	**9/9/2018**	SeqNo:	**1784309**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.6	77.3	128			
Toluene	0.91	0.050	1.000	0	91.5	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.8	81.6	129			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1809292 RcptNo: 1

Received By: **Ashley Gallegos** 9/6/2018 8:00:00 AM

Completed By: **Leah Baca** 9/6/2018 3:06:49 PM

Reviewed By: ENM 9/7/18

Labeled by JAB 09/07/18

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted) 09/07/18
Adjusted? _____
Checked by: JAB

Special Handling (if applicable)

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

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

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S Rio Grande, Suite A, Aztec, NM 87410

Project Manager: K. Summers

Laboratory: Hall Environmental Analysis Laboratory

Address: 4901 Hawkins NE, Albuquerque, NM 87109

Contact: Andy Freeman

Phone: 505-345-3975

PO/SO #: 725040112154A

Lab use only
Due Date:

Temp. of coolers when received (C°): 4.6-1.0 = 3.6

1 | 2 | 3 | 4 | 5

Page 1 of 2

Sampler's Name: Ranee Deechilly

Sampler's Signature:

Proj. No.: 725040112154A

Project Name: Largo CS

ANALYSIS REQUESTED: BTEX 8021; TPH 8015D/DRO/MRO; Chlorides

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	9/4/18	1155			SB-114 @ 8'-10'						1		1809292-001
S	9/4/18	1200			SB-114 @ 10'-12'						1		-002
S	9/4/18	1235			SB-115 @ 8'-10'						1		-003
S	9/4/18	1240			SB-115 @ 11'-12'						1		-004
S	9/4/18	1315			SB-116 @ 6'						1		-005
S	9/4/18	1320			SB-116 @ 14'-16'						1		-006
S	9/4/18	1420			SB-117 @ 6'-8'						1		-007
S	9/4/18	1415			SB-117 @ 14'-16'						1		-008
S	9/4/18	1445			SB-118 @ 8'-10.5'						1		-009
S	9/4/18	1450			SB-118 @ 14'-16'						1		-010

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/5/18	1645		09/06/18	08:00
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

NOTES: Bill to Apex Corporate rate

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S. Rio Grande, Suite A, Aztec, NM 87410

Project Manager: KSummers

Laboratory: Hall Environmental Analysis Laboratory

Address: 4901 Hawkins NE, Albuquerque, NM 87109

Contact: Andy Freeman

Phone: 505-345-3975

PO/SO #: 725040112154A

Sampler's Name: Ranee Deechilly

Sampler's Signature:

Proj. No.: 725040112154A

Project Name: Largo CS

Lab use only
Due Date:

Temp. of coolers when received (C°): 4.6-1.0 3.6

1 2 3 4 5

Page 2 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED: BTEX 8021	TPH 6PO/DRO/MRO 8015	Chlorides	Lab Sample ID (Lab Use Only)
S	9/4/18	1535			SB-119 @ 8'-10'						1		X	X	X	1809292-011
S	9/4/18	1530			SB-119 @ 14'-16'						1		X	X	X	-012
S	9/4/18	1555			SB-120 @ 8'-9'						1		X	X	X	-013
S	9/4/18	1600			SB-120 @ 14'-16'						1		X	X	X	-014
S	9/4/18	1635			SB-121 @ 12'-14'						1		X	X	X	-015
S	9/4/18	1630			SB-121 @ 14'-16'						1		X	X	X	-016

NFS

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9/5/18	1645		09/06/18	0800
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:

NOTES: Bill to Apex corporate

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

ENSOLUM

APPENDIX F2

Interim Remediation (Area 3 Excavation)
Laboratory Data Sheets
& Chain of Custody Documentation

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

August 25, 2017

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

RE: Largo Compressor Station OrderNo.: 1708D70

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/24/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708D70**
Date Reported: **8/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P1-1
Project: Largo Compressor Station **Collection Date:** 8/23/2017 10:30:00 AM
Lab ID: 1708D70-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/24/2017 6:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/24/2017 10:24:07 AM	33533
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/24/2017 10:24:07 AM	33533
Surr: DNOP	102	70-130		%Rec	1	8/24/2017 10:24:07 AM	33533
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	8/24/2017 9:57:57 AM	33508
Surr: BFB	93.3	54-150		%Rec	1	8/24/2017 9:57:57 AM	33508
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	8/24/2017 9:57:57 AM	33508
Toluene	ND	0.045		mg/Kg	1	8/24/2017 9:57:57 AM	33508
Ethylbenzene	ND	0.045		mg/Kg	1	8/24/2017 9:57:57 AM	33508
Xylenes, Total	ND	0.089		mg/Kg	1	8/24/2017 9:57:57 AM	33508
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	8/24/2017 9:57:57 AM	33508

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

Qualifiers:

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

Analytical Report
Lab Order **1708D70**
Date Reported: **8/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P1-2
Project: Largo Compressor Station **Collection Date:** 8/23/2017 10:35:00 AM
Lab ID: 1708D70-002 **Matrix:** MEOH (SOIL) **Received Date:** 8/24/2017 6:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/24/2017 10:48:47 AM	33533
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/24/2017 10:48:47 AM	33533
Surr: DNOP	104	70-130		%Rec	1	8/24/2017 10:48:47 AM	33533
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/24/2017 10:21:55 AM	33508
Surr: BFB	91.1	54-150		%Rec	1	8/24/2017 10:21:55 AM	33508
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/24/2017 10:21:55 AM	33508
Toluene	ND	0.047		mg/Kg	1	8/24/2017 10:21:55 AM	33508
Ethylbenzene	ND	0.047		mg/Kg	1	8/24/2017 10:21:55 AM	33508
Xylenes, Total	ND	0.093		mg/Kg	1	8/24/2017 10:21:55 AM	33508
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	1	8/24/2017 10:21:55 AM	33508

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

Qualifiers:

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

Analytical Report
Lab Order **1708D70**
Date Reported: **8/25/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P1-SP1
Project: Largo Compressor Station **Collection Date:** 8/23/2017 10:40:00 AM
Lab ID: 1708D70-003 **Matrix:** MEOH (SOIL) **Received Date:** 8/24/2017 6:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/24/2017 11:13:26 AM	33533
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/24/2017 11:13:26 AM	33533
Surr: DNOP	104	70-130		%Rec	1	8/24/2017 11:13:26 AM	33533
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	8/24/2017 10:45:56 AM	33508
Surr: BFB	97.6	54-150		%Rec	1	8/24/2017 10:45:56 AM	33508
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	8/24/2017 10:45:56 AM	33508
Toluene	ND	0.041		mg/Kg	1	8/24/2017 10:45:56 AM	33508
Ethylbenzene	ND	0.041		mg/Kg	1	8/24/2017 10:45:56 AM	33508
Xylenes, Total	ND	0.082		mg/Kg	1	8/24/2017 10:45:56 AM	33508
Surr: 4-Bromofluorobenzene	121	66.6-132		%Rec	1	8/24/2017 10:45:56 AM	33508

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708D70**
25-Aug-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **LCS-33533** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **33533** RunNo: **45181**
Prep Date: **8/24/2017** Analysis Date: **8/24/2017** SeqNo: **1430495** 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	95.1	73.2	114			
Surr: DNOP	4.6		5.000		93.0	70	130			

Sample ID **MB-33533** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **33533** RunNo: **45181**
Prep Date: **8/24/2017** Analysis Date: **8/24/2017** SeqNo: **1430496** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.1	70	130			

Sample ID **1708D70-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P1-1** Batch ID: **33533** RunNo: **45181**
Prep Date: **8/24/2017** Analysis Date: **8/24/2017** SeqNo: **1430966** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.35	6.076	84.9	55.8	122			
Surr: DNOP	5.2		5.035		103	70	130			

Sample ID **1708D70-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P1-1** Batch ID: **33533** RunNo: **45181**
Prep Date: **8/24/2017** Analysis Date: **8/24/2017** SeqNo: **1430967** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.8	49.02	6.076	92.5	55.8	122	5.25	20	
Surr: DNOP	5.2		4.902		105	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708D70**
25-Aug-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID	**MB-33508**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**33508**	RunNo:	**45185**					
Prep Date:	**8/23/2017**	Analysis Date:	**8/24/2017**	SeqNo:	**1431603**	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	950		1000		95.4	54	150			

Sample ID	**LCS-33508**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**33508**	RunNo:	**45185**					
Prep Date:	**8/23/2017**	Analysis Date:	**8/24/2017**	SeqNo:	**1431604**	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	102	76.4	125			
Surr: BFB	1000		1000		103	54	150			

Sample ID	**MB-33523**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**33523**	RunNo:	**45185**					
Prep Date:	**8/23/2017**	Analysis Date:	**8/24/2017**	SeqNo:	**1431623**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.7	54	150			

Sample ID	**LCS-33523**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**33523**	RunNo:	**45185**					
Prep Date:	**8/23/2017**	Analysis Date:	**8/24/2017**	SeqNo:	**1431624**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		105	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708D70**
25-Aug-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **MB-33508** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **33508** RunNo: **45185**
Prep Date: **8/23/2017** Analysis Date: **8/24/2017** SeqNo: **1431631** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	66.6	132			

Sample ID **LCS-33508** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **33508** RunNo: **45185**
Prep Date: **8/23/2017** Analysis Date: **8/24/2017** SeqNo: **1431632** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		126	66.6	132			

Sample ID **MB-33523** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **33523** RunNo: **45185**
Prep Date: **8/23/2017** Analysis Date: **8/24/2017** SeqNo: **1431647** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Sample ID **LCS-33523** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **33523** RunNo: **45185**
Prep Date: **8/23/2017** Analysis Date: **8/24/2017** SeqNo: **1431648** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		121	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1708D70 RcptNo: 1

Received By: Ashley Gallegos 8/24/2017 6:15:00 AM
Completed By: Ashley Gallegos 8/24/2017 6:42:00 AM
Reviewed By: 8/24/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	1.1	Good	Yes			

Page 1 of 1

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S. Rio Grand Suite A Aztec N.M

Project Manager: K. Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque N.M 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 725040117154

Sampler's Name: Chad DApont

Sampler's Signature: [signature]

Proj. No.: 725040117154

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021; TPH DRO/GRO/MRO 8015

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.1
1 2 3 4 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 lt	250 ml	Glass Jar	P/O	BTEX 8021	TPH DRO/GRO/MRO 8015	Lab Sample ID (Lab Use Only)
S	8/23/17	1030	C		P1-1	0	17				1		X	X	1708D70-001
S	8/23/17	1055	C		P1-2	0	18				1		X	X	-002
S	8/23/17	1010	C		P1-SP1	–	–				1		X	X	-003

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	8/23/17	1430	[signature]	8/23/17	1430
[signature]	8/23/17	1620	[signature]	8/23/17	1620
[signature]	8/23/17	1936	[signature]	08/24/17	0015

NOTES: ~~[illegible]~~ E Prod
Bill to Apex Corp Rate
Same Day

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 29, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1708F19

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/26/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708F19**
Date Reported: **8/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-3
Project: Largo Compressor Station **Collection Date:** 8/25/2017 11:00:00 AM
Lab ID: 1708F19-001 **Matrix:** SOIL **Received Date:** 8/26/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/28/2017 1:06:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/28/2017 1:06:11 PM
Surr: DNOP	91.7	70-130		%Rec	1	8/28/2017 1:06:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	2.7		mg/Kg	1	8/28/2017 1:24:16 PM
Surr: BFB	78.0	54-150		%Rec	1	8/28/2017 1:24:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.013		mg/Kg	1	8/28/2017 1:24:16 PM
Toluene	ND	0.027		mg/Kg	1	8/28/2017 1:24:16 PM
Ethylbenzene	ND	0.027		mg/Kg	1	8/28/2017 1:24:16 PM
Xylenes, Total	ND	0.053		mg/Kg	1	8/28/2017 1:24:16 PM
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/28/2017 1:24:16 PM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F19**
Date Reported: **8/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-4
Project: Largo Compressor Station **Collection Date:** 8/25/2017 11:05:00 AM
Lab ID: 1708F19-002 **Matrix:** SOIL **Received Date:** 8/26/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/28/2017 1:34:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/28/2017 1:34:18 PM
Surr: DNOP	93.6	70-130		%Rec	1	8/28/2017 1:34:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	8/28/2017 1:48:16 PM
Surr: BFB	80.4	54-150		%Rec	1	8/28/2017 1:48:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.018		mg/Kg	1	8/28/2017 1:48:16 PM
Toluene	ND	0.035		mg/Kg	1	8/28/2017 1:48:16 PM
Ethylbenzene	ND	0.035		mg/Kg	1	8/28/2017 1:48:16 PM
Xylenes, Total	ND	0.071		mg/Kg	1	8/28/2017 1:48:16 PM
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/28/2017 1:48:16 PM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F19**
Date Reported: **8/29/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-SP2
Project: Largo Compressor Station **Collection Date:** 8/25/2017 11:10:00 AM
Lab ID: 1708F19-003 **Matrix:** SOIL **Received Date:** 8/26/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	31	9.7		mg/Kg	1	8/28/2017 2:02:40 PM
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	8/28/2017 2:02:40 PM
Surr: DNOP	91.6	70-130		%Rec	1	8/28/2017 2:02:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	190	18		mg/Kg	5	8/28/2017 2:12:21 PM
Surr: BFB	307	54-150	S	%Rec	5	8/28/2017 2:12:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.088		mg/Kg	5	8/28/2017 2:12:21 PM
Toluene	0.23	0.18		mg/Kg	5	8/28/2017 2:12:21 PM
Ethylbenzene	ND	0.18		mg/Kg	5	8/28/2017 2:12:21 PM
Xylenes, Total	5.9	0.35		mg/Kg	5	8/28/2017 2:12:21 PM
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	5	8/28/2017 2:12:21 PM

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F19**
29-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33577**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**33577**	RunNo:	**45248**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/28/2017**	SeqNo:	**1432929**	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	95.9	73.2	114			
Surr: DNOP	4.0		5.000		80.9	70	130			

Sample ID	**MB-33577**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**33577**	RunNo:	**45248**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/28/2017**	SeqNo:	**1432930**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F19**
29-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G45253**	RunNo: **45253**
Prep Date:	Analysis Date: **8/28/2017**	SeqNo: **1433360** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G45253**	RunNo: **45253**
Prep Date:	Analysis Date: **8/28/2017**	SeqNo: **1433361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	76.4	125			
Surr: BFB	920		1000		91.9	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F19**
29-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**B45253**	RunNo:	**45253**					
Prep Date:		Analysis Date:	**8/28/2017**	SeqNo:	**1433381**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		120	66.6	132			

Sample ID	**100NG BTEX LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**B45253**	RunNo:	**45253**					
Prep Date:		Analysis Date:	**8/28/2017**	SeqNo:	**1433382**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1708F19 RcptNo: 1

Received By: Andy Freeman 8/26/2017 10:00:00 AM

Completed By: Erin Melendrez 8/28/2017 8:36:53 AM

Reviewed By: IO 8-28-17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suit A Aztec NM 87410

Project Manager K. Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A. Freeman

Phone: 505-345-3975

PO/SO #: 725040112 1541

Sampler's Name: Chad D'Apont

Sampler's Signature:

Proj. No. 725040112 1541

Project Name: Largo Compressor Station

Lab use only
Due Date:

Temp. of coolers when received (C°): 2.3°C

1	2	3	4	5

Page 1 of 1

ANALYSIS REQUESTED: BTEX 8021; TPH 8015 DRO/GRO/MRO; 1708F19 Lab Sample ID (Lab Use Only)

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O			Lab Sample ID
S	8/25/17	1100	X		P1-3	0	16				1		X	X	-001
S	8/25/17	1105	X		P1-4	0	16				1		X	X	-002
S	8/25/17	1110	X		P1-SP2	-	-				1		X	X	-003

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☑ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	8-25-17	1220		8/25/17	1220
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	8/25/17	1330		8/25/17	1330
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	8/25/17	1430		8/26/17	1000
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Apex COIP Rate

Same day

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

August 30, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1708F24

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/26/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708F24**
Date Reported: **8/30/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** C3R
Project: Largo Compressor Station **Collection Date:** 8/25/2017 11:20:00 AM
Lab ID: 1708F24-001 **Matrix:** SOIL **Received Date:** 8/26/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	8/29/2017 6:18:22 PM	33588
Motor Oil Range Organics (MRO)	60	50		mg/Kg	1	8/29/2017 6:18:22 PM	33588
Surr: DNOP	86.6	70-130		%Rec	1	8/29/2017 6:18:22 PM	33588
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/29/2017 1:36:22 PM	33586
Surr: BFB	77.2	54-150		%Rec	1	8/29/2017 1:36:22 PM	33586
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	8/29/2017 1:36:22 PM	33586
Toluene	ND	0.047		mg/Kg	1	8/29/2017 1:36:22 PM	33586
Ethylbenzene	ND	0.047		mg/Kg	1	8/29/2017 1:36:22 PM	33586
Xylenes, Total	ND	0.093		mg/Kg	1	8/29/2017 1:36:22 PM	33586
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/29/2017 1:36:22 PM	33586

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F24**
30-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33596**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33596**		RunNo:	**45262**				
Prep Date:	**8/29/2017**	Analysis Date:	**8/29/2017**		SeqNo:	**1433905**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID	**MB-33596**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33596**		RunNo:	**45262**				
Prep Date:	**8/29/2017**	Analysis Date:	**8/29/2017**		SeqNo:	**1433906**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.1	70	130			

Sample ID	**LCS-33588**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33588**		RunNo:	**45264**				
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**		SeqNo:	**1433909**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.7	73.2	114			
Surr: DNOP	4.7		5.000		94.6	70	130			

Sample ID	**MB-33588**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33588**		RunNo:	**45264**				
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**		SeqNo:	**1433910**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F24**
30-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33586**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**33586**	RunNo:	**45278**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**	SeqNo:	**1434463**	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	750		1000		75.1	54	150			

Sample ID	**LCS-33586**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**33586**	RunNo:	**45278**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**	SeqNo:	**1434464**	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	93.9	76.4	125			
Surr: BFB	870		1000		87.2	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F24**
30-Aug-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33586**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**33586**	RunNo:	**45278**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**	SeqNo:	**1434472**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132			

Sample ID	**LCS-33586**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**33586**	RunNo:	**45278**					
Prep Date:	**8/28/2017**	Analysis Date:	**8/29/2017**	SeqNo:	**1434473**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1708F24 RcptNo: 1

Received By: Andy Freeman 8/26/2017 10:00:00 AM
Completed By: Erin Melendrez 8/28/2017 9:57:36 AM
Reviewed By: 8/28/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suit A Aztec N.M.

Project Manager R Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque N.M 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad D'Apont

Sampler's Signature:

Lab use only
Due Date:

Temp. of coolers when received (C°): 2.3°C

1	2	3	4	5

Page 1 of 1

Proj. No.: 725040112154

Project Name: Largo Compressor Station

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	ANALYSIS REQUESTED: BTEX 8021	TPH DRO GRO 8015	
S	8/25/17	1120	C		C3R	-	-				1		X	X	1708F24 -001

Lab Sample ID (Lab Use Only)

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	8/25/17	1220		8/25/17	1220
	8/25/17	1350		8/25/17	1330
	8/25/17	1430		8/26/17	1006

NOTES: Bill to Apt Coop Rate

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 01, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1708F79

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/29/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T1
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:00:00 AM
Lab ID: 1708F79-001 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	800	9.8		mg/Kg	1	8/31/2017 12:34:27 PM
Motor Oil Range Organics (MRO)	390	49		mg/Kg	1	8/31/2017 12:34:27 PM
Surr: DNOP	115	70-130		%Rec	1	8/31/2017 12:34:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	10000	950		mg/Kg	200	8/30/2017 11:28:36 AM
Surr: BFB	155	54-150	S	%Rec	200	8/30/2017 11:28:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	17	0.47		mg/Kg	20	8/30/2017 9:35:26 AM
Toluene	150	9.5		mg/Kg	200	8/30/2017 11:28:36 AM
Ethylbenzene	42	0.95		mg/Kg	20	8/30/2017 9:35:26 AM
Xylenes, Total	410	19		mg/Kg	200	8/30/2017 11:28:36 AM
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	200	8/30/2017 11:28:36 AM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T2
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:05:00 AM
Lab ID: 1708F79-002 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2017 1:18:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2017 1:18:40 PM
Surr: DNOP	105	70-130		%Rec	1	8/31/2017 1:18:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	9.5	4.8		mg/Kg	1	8/30/2017 11:52:36 AM
Surr: BFB	128	54-150		%Rec	1	8/30/2017 11:52:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.027	0.024		mg/Kg	1	8/30/2017 11:52:36 AM
Toluene	0.092	0.048		mg/Kg	1	8/30/2017 11:52:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	8/30/2017 11:52:36 AM
Xylenes, Total	0.14	0.096		mg/Kg	1	8/30/2017 11:52:36 AM
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	8/30/2017 11:52:36 AM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T3
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:10:00 AM
Lab ID: 1708F79-003 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	960	37		mg/Kg	4	8/31/2017 4:18:43 PM
Motor Oil Range Organics (MRO)	390	180		mg/Kg	4	8/31/2017 4:18:43 PM
Surr: DNOP	125	70-130		%Rec	4	8/31/2017 4:18:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	8600	960		mg/Kg	200	8/30/2017 1:04:25 PM
Surr: BFB	142	54-150		%Rec	200	8/30/2017 1:04:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	12	0.48		mg/Kg	20	8/30/2017 9:59:07 AM
Toluene	4.8	0.96		mg/Kg	20	8/30/2017 9:59:07 AM
Ethylbenzene	19	0.96		mg/Kg	20	8/30/2017 9:59:07 AM
Xylenes, Total	520	19		mg/Kg	200	8/30/2017 1:04:25 PM
Surr: 4-Bromofluorobenzene	117	66.6-132		%Rec	200	8/30/2017 1:04:25 PM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T4
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:15:00 AM
Lab ID: 1708F79-004 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	290	9.6		mg/Kg	1	8/31/2017 2:25:09 PM
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	8/31/2017 2:25:09 PM
Surr: DNOP	114	70-130		%Rec	1	8/31/2017 2:25:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1800	94		mg/Kg	20	8/30/2017 10:22:53 AM
Surr: BFB	255	54-150	S	%Rec	20	8/30/2017 10:22:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.7	0.47		mg/Kg	20	8/30/2017 10:22:53 AM
Toluene	7.1	0.94		mg/Kg	20	8/30/2017 10:22:53 AM
Ethylbenzene	4.4	0.94		mg/Kg	20	8/30/2017 10:22:53 AM
Xylenes, Total	60	1.9		mg/Kg	20	8/30/2017 10:22:53 AM
Surr: 4-Bromofluorobenzene	139	66.6-132	S	%Rec	20	8/30/2017 10:22:53 AM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T5
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:20:00 AM
Lab ID: 1708F79-005 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	8/31/2017 2:55:07 PM
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	8/31/2017 2:55:07 PM
Surr: DNOP	114	70-130		%Rec	1	8/31/2017 2:55:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	630	24		mg/Kg	5	8/30/2017 1:28:22 PM
Surr: BFB	457	54-150	S	%Rec	5	8/30/2017 1:28:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.29	0.12		mg/Kg	5	8/30/2017 1:28:22 PM
Toluene	3.3	0.24		mg/Kg	5	8/30/2017 1:28:22 PM
Ethylbenzene	3.0	0.24		mg/Kg	5	8/30/2017 1:28:22 PM
Xylenes, Total	29	0.47		mg/Kg	5	8/30/2017 1:28:22 PM
Surr: 4-Bromofluorobenzene	142	66.6-132	S	%Rec	5	8/30/2017 1:28:22 PM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T6
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:25:00 AM
Lab ID: 1708F79-006 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	350	9.5		mg/Kg	1	8/31/2017 3:17:22 PM
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	8/31/2017 3:17:22 PM
Surr: DNOP	118	70-130		%Rec	1	8/31/2017 3:17:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	3100	97		mg/Kg	20	8/30/2017 11:10:30 AM
Surr: BFB	463	54-150	S	%Rec	20	8/30/2017 11:10:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.3	0.48		mg/Kg	20	8/30/2017 11:10:30 AM
Toluene	30	0.97		mg/Kg	20	8/30/2017 11:10:30 AM
Ethylbenzene	15	0.97		mg/Kg	20	8/30/2017 11:10:30 AM
Xylenes, Total	140	1.9		mg/Kg	20	8/30/2017 11:10:30 AM
Surr: 4-Bromofluorobenzene	154	66.6-132	S	%Rec	20	8/30/2017 11:10:30 AM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T7
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:30:00 AM
Lab ID: 1708F79-007 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	410	9.4		mg/Kg	1	8/31/2017 3:39:40 PM
Motor Oil Range Organics (MRO)	240	47		mg/Kg	1	8/31/2017 3:39:40 PM
Surr: DNOP	108	70-130		%Rec	1	8/31/2017 3:39:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	6900	93		mg/Kg	20	8/30/2017 11:34:11 AM
Surr: BFB	732	54-150	S	%Rec	20	8/30/2017 11:34:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	8.0	0.46		mg/Kg	20	8/30/2017 11:34:11 AM
Toluene	30	0.93		mg/Kg	20	8/30/2017 11:34:11 AM
Ethylbenzene	26	0.93		mg/Kg	20	8/30/2017 11:34:11 AM
Xylenes, Total	210	1.9		mg/Kg	20	8/30/2017 11:34:11 AM
Surr: 4-Bromofluorobenzene	173	66.6-132	S	%Rec	20	8/30/2017 11:34:11 AM

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

Qualifiers:

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

Analytical Report
Lab Order **1708F79**
Date Reported: **9/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T8
Project: Largo Compressor Station **Collection Date:** 8/28/2017 11:35:00 AM
Lab ID: 1708F79-008 **Matrix:** SOIL **Received Date:** 8/29/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**
Diesel Range Organics (DRO)	400	9.6		mg/Kg	1	8/31/2017 4:01:53 PM
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	8/31/2017 4:01:53 PM
Surr: DNOP	112	70-130		%Rec	1	8/31/2017 4:01:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	4300	96		mg/Kg	20	8/30/2017 11:57:53 AM
Surr: BFB	584	54-150	S	%Rec	20	8/30/2017 11:57:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	6.4	0.48		mg/Kg	20	8/30/2017 11:57:53 AM
Toluene	3.8	0.96		mg/Kg	20	8/30/2017 11:57:53 AM
Ethylbenzene	20	0.96		mg/Kg	20	8/30/2017 11:57:53 AM
Xylenes, Total	140	1.9		mg/Kg	20	8/30/2017 11:57:53 AM
Surr: 4-Bromofluorobenzene	162	66.6-132	S	%Rec	20	8/30/2017 11:57:53 AM

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F79**
01-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33646**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33646**		RunNo:	**45327**				
Prep Date:	**8/31/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1436150**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.3	70	130			

Sample ID	**MB-33646**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33646**		RunNo:	**45327**				
Prep Date:	**8/31/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1436151**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	70	130			

Sample ID	**MB-33625**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33625**		RunNo:	**45328**				
Prep Date:	**8/30/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1436167**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.8	70	130			

Sample ID	**LCS-33625**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33625**		RunNo:	**45328**				
Prep Date:	**8/30/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1436348**	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	73.2	114			
Surr: DNOP	4.9		5.000		98.9	70	130			

Sample ID	**MB-33628**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33628**		RunNo:	**45329**				
Prep Date:	**8/30/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1437148**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.7	70	130			

Sample ID	**LCS-33628**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33628**		RunNo:	**45329**				
Prep Date:	**8/30/2017**	Analysis Date:	**8/31/2017**		SeqNo:	**1437221**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F79**
01-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33607**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**33607**	RunNo:	**45303**					
Prep Date:	**8/29/2017**	Analysis Date:	**8/30/2017**	SeqNo:	**1435534**	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	790		1000		78.6	54	150			

Sample ID	**LCS-33607**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**33607**	RunNo:	**45303**					
Prep Date:	**8/29/2017**	Analysis Date:	**8/30/2017**	SeqNo:	**1435535**	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	93.4	76.4	125			
Surr: BFB	880		1000		87.8	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708F79**
01-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33607**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**33607**	RunNo:	**45303**					
Prep Date:	**8/29/2017**	Analysis Date:	**8/30/2017**	SeqNo:	**1435551**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		115	66.6	132			

Sample ID	**LCS-33607**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**33607**	RunNo:	**45303**					
Prep Date:	**8/29/2017**	Analysis Date:	**8/30/2017**	SeqNo:	**1435552**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1708F79 | RcptNo: 1

Received By: Isaiah Ortiz 8/29/2017 8:00:00 AM

Completed By: Erin Melendrez 8/29/2017 10:30:08 AM

Reviewed By: 8/29/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suite A
Aztec N.M 87410
Project Manager K. Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque N.M 87109
Contact: A Fleeman
Phone: 505-345-3975
PO/SO #: 725040112154

Sampler's Name: Chad D'Apont
Sampler's Signature:

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0°
Page 1 of 1

Proj. No: 725040112154
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX + 8021 / TPH 8015 Modified / Chlorides 300.0

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	AG 1 Lt	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	5/28/17	1100	C		P1-T1	0	12'				1		1708F79-001
S	5/28/17	1105	C		P1-T2	0	12'				1		-002
S	5/28/17	1110	C		P1-T3	0	20'				1		-003
S	5/28/17	1115	C		P1-T4	0	20'				1		-004
S	5/28/17	1120	C		P1-T5	0	17'				1		-005
S	5/28/17	1125	C		P1-T6	0	17'				1		-006
S	5/28/17	1130	C		P1-T7	0	20'				1		-007
S	5/28/17	1135	C		P1-T8	0	20'				1		-008

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush 3 Day

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/28/17	1614		5/28/17	1614
	5/28/17	2011	I. Ortiz	5/29/17	08:00

NOTES:
Bill to Apex Corp Rate
3 Day

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 06, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1709088

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/2/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709088**
Date Reported: **9/6/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T9
Project: Largo Compressor Station **Collection Date:** 9/1/2017 10:00:00 AM
Lab ID: 1709088-001 **Matrix:** SOIL **Received Date:** 9/2/2017 12:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	300	9.6		mg/Kg	1	9/5/2017 10:22:53 AM	33693
Motor Oil Range Organics (MRO)	190	48		mg/Kg	1	9/5/2017 10:22:53 AM	33693
Surr: DNOP	103	70-130		%Rec	1	9/5/2017 10:22:53 AM	33693
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3300	210		mg/Kg	50	9/5/2017 9:42:47 AM	33682
Surr: BFB	318	54-150	S	%Rec	50	9/5/2017 9:42:47 AM	33682
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	1.1	1.0		mg/Kg	50	9/5/2017 9:42:47 AM	33682
Toluene	8.0	2.1		mg/Kg	50	9/5/2017 9:42:47 AM	33682
Ethylbenzene	12	2.1		mg/Kg	50	9/5/2017 9:42:47 AM	33682
Xylenes, Total	140	4.2		mg/Kg	50	9/5/2017 9:42:47 AM	33682
Surr: 4-Bromofluorobenzene	136	66.6-132	S	%Rec	50	9/5/2017 9:42:47 AM	33682

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

Qualifiers:

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

Analytical Report
Lab Order **1709088**
Date Reported: **9/6/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T10
Project: Largo Compressor Station **Collection Date:** 9/1/2017 10:05:00 AM
Lab ID: 1709088-002 **Matrix:** SOIL **Received Date:** 9/2/2017 12:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	38	9.2		mg/Kg	1	9/5/2017 10:44:53 AM	33693
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/5/2017 10:44:53 AM	33693
Surr: DNOP	102	70-130		%Rec	1	9/5/2017 10:44:53 AM	33693
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	760	43		mg/Kg	10	9/5/2017 12:06:11 PM	33682
Surr: BFB	390	54-150	S	%Rec	10	9/5/2017 12:06:11 PM	33682
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.44	0.22		mg/Kg	10	9/5/2017 12:06:11 PM	33682
Toluene	3.1	0.43		mg/Kg	10	9/5/2017 12:06:11 PM	33682
Ethylbenzene	3.0	0.43		mg/Kg	10	9/5/2017 12:06:11 PM	33682
Xylenes, Total	28	0.86		mg/Kg	10	9/5/2017 12:06:11 PM	33682
Surr: 4-Bromofluorobenzene	137	66.6-132	S	%Rec	10	9/5/2017 12:06:11 PM	33682

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

Qualifiers:

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

Analytical Report
Lab Order **1709088**
Date Reported: **9/6/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T11
Project: Largo Compressor Station **Collection Date:** 9/1/2017 10:10:00 AM
Lab ID: 1709088-003 **Matrix:** SOIL **Received Date:** 9/2/2017 12:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	150	9.2		mg/Kg	1	9/5/2017 11:06:57 AM	33693
Motor Oil Range Organics (MRO)	81	46		mg/Kg	1	9/5/2017 11:06:57 AM	33693
Surr: DNOP	113	70-130		%Rec	1	9/5/2017 11:06:57 AM	33693
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	5200	180		mg/Kg	50	9/5/2017 10:30:27 AM	33682
Surr: BFB	275	54-150	S	%Rec	50	9/5/2017 10:30:27 AM	33682
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	8.6	0.91		mg/Kg	50	9/5/2017 10:30:27 AM	33682
Toluene	99	1.8		mg/Kg	50	9/5/2017 10:30:27 AM	33682
Ethylbenzene	31	1.8		mg/Kg	50	9/5/2017 10:30:27 AM	33682
Xylenes, Total	310	3.6		mg/Kg	50	9/5/2017 10:30:27 AM	33682
Surr: 4-Bromofluorobenzene	144	66.6-132	S	%Rec	50	9/5/2017 10:30:27 AM	33682

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

Qualifiers:

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

Analytical Report
Lab Order **1709088**
Date Reported: **9/6/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T12
Project: Largo Compressor Station **Collection Date:** 9/1/2017 10:15:00 AM
Lab ID: 1709088-004 **Matrix:** SOIL **Received Date:** 9/2/2017 12:50:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	48	9.7		mg/Kg	1	9/5/2017 11:29:09 AM	33693
Motor Oil Range Organics (MRO)	62	48		mg/Kg	1	9/5/2017 11:29:09 AM	33693
Surr: DNOP	101	70-130		%Rec	1	9/5/2017 11:29:09 AM	33693
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	2500	170		mg/Kg	50	9/5/2017 12:54:00 PM	33682
Surr: BFB	263	54-150	S	%Rec	50	9/5/2017 12:54:00 PM	33682
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.087		mg/Kg	5	9/5/2017 11:18:16 AM	33682
Toluene	0.43	0.17		mg/Kg	5	9/5/2017 11:18:16 AM	33682
Ethylbenzene	13	0.17		mg/Kg	5	9/5/2017 11:18:16 AM	33682
Xylenes, Total	89	3.5		mg/Kg	50	9/5/2017 12:54:00 PM	33682
Surr: 4-Bromofluorobenzene	135	66.6-132	S	%Rec	50	9/5/2017 12:54:00 PM	33682

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709088**
06-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33693**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33693**		RunNo:	**45403**				
Prep Date:	**9/5/2017**	Analysis Date:	**9/5/2017**		SeqNo:	**1438552**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.9	73.2	114			
Surr: DNOP	5.0		5.000		99.3	70	130			

Sample ID	**MB-33693**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33693**		RunNo:	**45403**				
Prep Date:	**9/5/2017**	Analysis Date:	**9/5/2017**		SeqNo:	**1438553**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709088**
06-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33682**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**33682**	RunNo:	**45408**					
Prep Date:	**9/1/2017**	Analysis Date:	**9/5/2017**	SeqNo:	**1439055**	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	820		1000		82.4	54	150			

Sample ID	**LCS-33682**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**33682**	RunNo:	**45408**					
Prep Date:	**9/1/2017**	Analysis Date:	**9/5/2017**	SeqNo:	**1439056**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.3	76.4	125			
Surr: BFB	910		1000		90.9	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709088**
06-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-33682**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**33682**	RunNo:	**45408**					
Prep Date:	**9/1/2017**	Analysis Date:	**9/5/2017**	SeqNo:	**1439078**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		128	66.6	132			

Sample ID	**LCS-33682**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**33682**	RunNo:	**45408**					
Prep Date:	**9/1/2017**	Analysis Date:	**9/5/2017**	SeqNo:	**1439079**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1709088 RcptNo: 1

Received By: Andy Freeman 9/2/2017 12:50:00 PM
Completed By: Anne Thorne 9/5/2017 7:21:11 AM
Reviewed By: ENM 9/5/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	4.6	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suit A Aztec NM 87410

Project Manager K Sommers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A. Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad D Aponti

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo Compressor Station

Lab use only
Due Date:

Temp. of coolers when received (C°): 4.6

1	2	3	4	5

Page 1 of 1

ANALYSIS REQUESTED: BTEX 8021; TPH DRO/GRO/MRO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O			Lab Sample ID (Lab Use Only)
S	9-1-17	1000	P		P1-T9						1		X	X	1709088-001
S	9-1-17	1005	P		P1-T10						1		X	X	-002
S	9-1-17	1010	P		P1-T11						1		X	X	003
S	9-1-17	1015	P		P1-T12						1		X	X	004

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush ~~3 Day~~ CO Same Day

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9-1-17	1330		9/1/17	1330
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9/1/17	1821		9/2/17	12:50
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: B:11 to Apex Coop Rate

~~3 Day~~ Same Day

~~9-1-17~~

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 20, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1709817

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/15/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709817**
Date Reported: **9/20/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T13
Project: Largo Compressor Station **Collection Date:** 9/14/2017 11:00:00 AM
Lab ID: 1709817-001 **Matrix:** SOIL **Received Date:** 9/15/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	460	9.7		mg/Kg	1	9/18/2017 11:16:35 AM	33890
Motor Oil Range Organics (MRO)	370	48		mg/Kg	1	9/18/2017 11:16:35 AM	33890
Surr: DNOP	94.0	70-130		%Rec	1	9/18/2017 11:16:35 AM	33890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	5200	75		mg/Kg	20	9/15/2017 1:37:28 PM	G45652
Surr: BFB	490	54-150	S	%Rec	20	9/15/2017 1:37:28 PM	G45652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	14	0.38		mg/Kg	20	9/15/2017 1:37:28 PM	B45652
Toluene	59	0.75		mg/Kg	20	9/15/2017 1:37:28 PM	B45652
Ethylbenzene	24	0.75		mg/Kg	20	9/15/2017 1:37:28 PM	B45652
Xylenes, Total	190	7.5		mg/Kg	100	9/15/2017 3:59:12 PM	B45652
Surr: 4-Bromofluorobenzene	165	66.6-132	S	%Rec	20	9/15/2017 1:37:28 PM	B45652

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

Qualifiers:

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

Analytical Report
Lab Order **1709817**
Date Reported: **9/20/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T14
Project: Largo Compressor Station **Collection Date:** 9/14/2017 11:05:00 AM
Lab ID: 1709817-002 **Matrix:** SOIL **Received Date:** 9/15/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	9/18/2017 11:44:43 AM	33890
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	9/18/2017 11:44:43 AM	33890
Surr: DNOP	91.1	70-130		%Rec	1	9/18/2017 11:44:43 AM	33890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	4100	82		mg/Kg	20	9/15/2017 2:01:03 PM	G45652
Surr: BFB	604	54-150	S	%Rec	20	9/15/2017 2:01:03 PM	G45652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.5	0.41		mg/Kg	20	9/15/2017 2:01:03 PM	B45652
Toluene	16	0.82		mg/Kg	20	9/15/2017 2:01:03 PM	B45652
Ethylbenzene	ND	0.82		mg/Kg	20	9/15/2017 2:01:03 PM	B45652
Xylenes, Total	140	1.6		mg/Kg	20	9/15/2017 2:01:03 PM	B45652
Surr: 4-Bromofluorobenzene	176	66.6-132	S	%Rec	20	9/15/2017 2:01:03 PM	B45652

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

Qualifiers:

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

Analytical Report
Lab Order **1709817**
Date Reported: **9/20/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T15
Project: Largo Compressor Station **Collection Date:** 9/14/2017 11:10:00 AM
Lab ID: 1709817-003 **Matrix:** SOIL **Received Date:** 9/15/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	390	9.3		mg/Kg	1	9/18/2017 12:12:46 PM	33890
Motor Oil Range Organics (MRO)	390	46		mg/Kg	1	9/18/2017 12:12:46 PM	33890
Surr: DNOP	97.9	70-130		%Rec	1	9/18/2017 12:12:46 PM	33890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	8900	210		mg/Kg	50	9/15/2017 2:24:35 PM	G45652
Surr: BFB	319	54-150	S	%Rec	50	9/15/2017 2:24:35 PM	G45652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	23	1.0		mg/Kg	50	9/15/2017 2:24:35 PM	B45652
Toluene	190	2.1		mg/Kg	50	9/15/2017 2:24:35 PM	B45652
Ethylbenzene	41	2.1		mg/Kg	50	9/15/2017 2:24:35 PM	B45652
Xylenes, Total	390	4.2		mg/Kg	50	9/15/2017 2:24:35 PM	B45652
Surr: 4-Bromofluorobenzene	141	66.6-132	S	%Rec	50	9/15/2017 2:24:35 PM	B45652

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

Qualifiers:

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

Analytical Report
Lab Order **1709817**
Date Reported: **9/20/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T16
Project: Largo Compressor Station **Collection Date:** 9/14/2017 11:15:00 AM
Lab ID: 1709817-004 **Matrix:** SOIL **Received Date:** 9/15/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	420	9.3		mg/Kg	1	9/18/2017 12:40:59 PM	33890
Motor Oil Range Organics (MRO)	350	47		mg/Kg	1	9/18/2017 12:40:59 PM	33890
Surr: DNOP	98.0	70-130		%Rec	1	9/18/2017 12:40:59 PM	33890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	5100	170		mg/Kg	50	9/15/2017 2:48:15 PM	G45652
Surr: BFB	206	54-150	S	%Rec	50	9/15/2017 2:48:15 PM	G45652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	20	0.86		mg/Kg	50	9/15/2017 2:48:15 PM	B45652
Toluene	220	6.9		mg/Kg	200	9/15/2017 4:22:51 PM	B45652
Ethylbenzene	39	1.7		mg/Kg	50	9/15/2017 2:48:15 PM	B45652
Xylenes, Total	390	3.4		mg/Kg	50	9/15/2017 2:48:15 PM	B45652
Surr: 4-Bromofluorobenzene	133	66.6-132	S	%Rec	50	9/15/2017 2:48:15 PM	B45652

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709817**
20-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33890**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33890**		RunNo:	**45693**				
Prep Date:	**9/15/2017**	Analysis Date:	**9/18/2017**		SeqNo:	**1450608**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	73.2	114			
Surr: DNOP	4.4		5.000		87.8	70	130			

Sample ID	**MB-33890**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33890**		RunNo:	**45693**				
Prep Date:	**9/15/2017**	Analysis Date:	**9/18/2017**		SeqNo:	**1450609**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709817**
20-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449741** 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	950		1000		94.7	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449742** 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	92.5	76.4	125			
Surr: BFB	1100		1000		107	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709817**
20-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449752** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449753** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.7	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1709817 RcptNo: 1

Received By: Anne Thorne 9/15/2017 7:30:00 AM Anne Thorne

Completed By: Anne Thorne 9/15/2017 7:42:41 AM Anne Thorne

Reviewed By: ENM 9/15/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	1.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grand Suit A Aztec NM 87410

Project Manager K Sommers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A. Freeman

Phone: 505-345-3979

PO/SO #: 725040112 1541

Sampler's Name: Chad D'Apont

Sampler's Signature:

Proj. No.: 725040112 1541

Project Name: Largo Compressor Station

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.4

1	2	3	4	5

Page 1 of 1

ANALYSIS REQUESTED: BTEX 8021; TPH DRO/GRO/MRO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	9/14/17	1100	X		P1-T13	0	16				1		1709817-001
S	9/14/17	1105	X		P1-T14	0	16				1		-002
S	9/14/17	1110	X		P1-T15	0	16				1		-003
S	9/14/17	1115	X		P1-T16	0	16				1		-004

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☑ 100% Rush ~~Same Day~~ Results 9/18

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9-14-17	1338		9/14/17	1338
	9/14/17	1903		09/15/17	0730

NOTES:
Bill to Apex (Corp Rate)
perks ~~Same Day~~ 09/18/17

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 20, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1709838

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/15/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709838**
Date Reported: **9/20/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-SP3
Project: Largo Compressor Station **Collection Date:** 9/14/2017 11:20:00 AM
Lab ID: 1709838-001 **Matrix:** SOIL **Received Date:** 9/15/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/18/2017 1:09:07 PM	33890
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/18/2017 1:09:07 PM	33890
Surr: DNOP	76.5	70-130		%Rec	1	9/18/2017 1:09:07 PM	33890
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/15/2017 3:35:34 PM	G45652
Surr: BFB	98.1	54-150		%Rec	1	9/15/2017 3:35:34 PM	G45652
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	9/15/2017 3:35:34 PM	B45652
Toluene	ND	0.041		mg/Kg	1	9/15/2017 3:35:34 PM	B45652
Ethylbenzene	ND	0.041		mg/Kg	1	9/15/2017 3:35:34 PM	B45652
Xylenes, Total	ND	0.082		mg/Kg	1	9/15/2017 3:35:34 PM	B45652
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	9/15/2017 3:35:34 PM	B45652

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709838**
20-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33890**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**33890**	RunNo:	**45693**					
Prep Date:	**9/15/2017**	Analysis Date:	**9/18/2017**	SeqNo:	**1450608**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	73.2	114			
Surr: DNOP	4.4		5.000		87.8	70	130			

Sample ID	**MB-33890**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**33890**	RunNo:	**45693**					
Prep Date:	**9/15/2017**	Analysis Date:	**9/18/2017**	SeqNo:	**1450609**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709838**
20-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449741** 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	950		1000		94.7	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G45652**	RunNo: **45652**
Prep Date:	Analysis Date: **9/15/2017**	SeqNo: **1449742** 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	92.5	76.4	125			
Surr: BFB	1100		1000		107	54	150			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709838**

20-Sep-17

Client: Apex Titan, Inc.

Project: Largo Compressor Station

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**PBS**	Batch ID:	**B45652**	RunNo:	**45652**				
Prep Date:		Analysis Date:	**9/15/2017**	SeqNo:	**1449752**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	66.6	132			

Sample ID	**100NG BTEX LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**				
Client ID:	**LCSS**	Batch ID:	**B45652**	RunNo:	**45652**				
Prep Date:		Analysis Date:	**9/15/2017**	SeqNo:	**1449753**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.7	80	120			
Toluene	0.96	0.050	1.000	0	96.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1709838 RcptNo: 1

Received By: Anne Thorne 9/15/2017 7:30:00 AM

Completed By: Anne Thorne 9/15/2017 9:46:18 AM

Reviewed By: DF 9/15/2017

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	1.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grand Suit A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Fleeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad D'Aponti

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo Compressor Station

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.4

1	2	3	4	5

Page 1 of 1

ANALYSIS REQUESTED: BTEX 8021; TPH DRO GRO/ARO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	9/14/17	1120	X		P1-SP3	-	-				1		1709838-001

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush 2 Day Results 9/18

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9/14/17	1338		9/14/17	1338
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9/14/17	1903		9/15/17	0730
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Apex Corp Rate)
2 Day
9-6-17

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 22, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1709A77

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/20/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1709A77**
Date Reported: **9/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T17
Project: Largo Compressor Station **Collection Date:** 9/19/2017 12:00:00 PM
Lab ID: 1709A77-001 **Matrix:** SOIL **Received Date:** 9/20/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	200	9.9		mg/Kg	1	9/21/2017 9:35:40 AM	33965
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	9/21/2017 9:35:40 AM	33965
Surr: DNOP	97.3	70-130		%Rec	1	9/21/2017 9:35:40 AM	33965
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	2700	160		mg/Kg	50	9/20/2017 12:45:36 PM	G45760
Surr: BFB	266	54-150	S	%Rec	50	9/20/2017 12:45:36 PM	G45760
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3.2	0.079		mg/Kg	5	9/20/2017 11:34:27 AM	B45760
Toluene	18	1.6		mg/Kg	50	9/20/2017 12:45:36 PM	B45760
Ethylbenzene	6.8	0.16		mg/Kg	5	9/20/2017 11:34:27 AM	B45760
Xylenes, Total	100	3.2		mg/Kg	50	9/20/2017 12:45:36 PM	B45760
Surr: 4-Bromofluorobenzene	134	66.6-132	S	%Rec	50	9/20/2017 12:45:36 PM	B45760

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

Qualifiers:

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

Analytical Report
Lab Order **1709A77**
Date Reported: **9/22/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P1-T18
Project: Largo Compressor Station **Collection Date:** 9/19/2017 12:10:00 PM
Lab ID: 1709A77-002 **Matrix:** SOIL **Received Date:** 9/20/2017 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	480	9.9		mg/Kg	1	9/21/2017 10:03:36 AM	33965
Motor Oil Range Organics (MRO)	310	49		mg/Kg	1	9/21/2017 10:03:36 AM	33965
Surr: DNOP	103	70-130		%Rec	1	9/21/2017 10:03:36 AM	33965
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	7200	390		mg/Kg	100	9/20/2017 11:58:18 AM	G45760
Surr: BFB	305	54-150	S	%Rec	100	9/20/2017 11:58:18 AM	G45760
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5.6	1.9		mg/Kg	100	9/20/2017 11:58:18 AM	B45760
Toluene	80	3.9		mg/Kg	100	9/20/2017 11:58:18 AM	B45760
Ethylbenzene	23	3.9		mg/Kg	100	9/20/2017 11:58:18 AM	B45760
Xylenes, Total	250	7.8		mg/Kg	100	9/20/2017 11:58:18 AM	B45760
Surr: 4-Bromofluorobenzene	138	66.6-132	S	%Rec	100	9/20/2017 11:58:18 AM	B45760

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709A77**
22-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-33965**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**33965**		RunNo:	**45773**				
Prep Date:	**9/20/2017**	Analysis Date:	**9/21/2017**		SeqNo:	**1454323**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	73.2	114			
Surr: DNOP	4.6		5.000		91.2	70	130			

Sample ID	**MB-33965**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**33965**		RunNo:	**45773**				
Prep Date:	**9/20/2017**	Analysis Date:	**9/21/2017**		SeqNo:	**1454324**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709A77**
22-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G45760**	RunNo: **45760**
Prep Date:	Analysis Date: **9/20/2017**	SeqNo: **1453626** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	54	150			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G45760**	RunNo: **45760**
Prep Date:	Analysis Date: **9/20/2017**	SeqNo: **1453627** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	76.4	125			
Surr: BFB	1100		1000		114	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1709A77**
22-Sep-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**B45760**	RunNo:	**45760**					
Prep Date:		Analysis Date:	**9/20/2017**	SeqNo:	**1453638**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	66.6	132			

Sample ID	**100NG BTEX LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**B45760**	RunNo:	**45760**					
Prep Date:		Analysis Date:	**9/20/2017**	SeqNo:	**1453639**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	66.6	132			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1709A77 RcptNo: 1

Received By: Anne Thorne 9/20/2017 7:20:00 AM
Completed By: Anne Thorne 9/20/2017 9:02:59 AM
Reviewed By: 9/20/2017

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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grand Suit A Aztec N.M

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A. Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad D'Antoni

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021, TPH DRO/GRO/MRO 8015

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1 | 2 | 3 | 4 | 5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	9/19/17	1200	✓		P1-T17	0	14				1		1909A77-001
S	9/19/17	1210	✓		P1-T18	0	16				1		-002

8/31/2017 MCH Kit

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush Next Day 9/21

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	9-18-17	1427		9/19/17	1427
	9/19/17	1919		09/20/17	0720
	Date:	Time:		Date:	Time:
	Date:	Time:		Date:	Time:

NOTES:
Bill to Apex (Corp Rate)

Next day 9-20-17

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 31, 2017

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

RE: Largo Compressor Station OrderNo.: 1710E43

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/27/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1710E43**
Date Reported: **10/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P1-T19
Project: Largo Compressor Station **Collection Date:** 10/26/2017 11:00:00 AM
Lab ID: 1710E43-001 **Matrix:** MEOH (SOIL) **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	310	9.8		mg/Kg	1	10/27/2017 11:51:36 AM	34675
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	10/27/2017 11:51:36 AM	34675
Surr: DNOP	93.1	70-130		%Rec	1	10/27/2017 11:51:36 AM	34675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3400	210		mg/Kg	50	10/27/2017 11:35:47 AM	G46704
Surr: BFB	248	15-316		%Rec	50	10/27/2017 11:35:47 AM	G46704
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.3	1.1		mg/Kg	50	10/27/2017 11:35:47 AM	B46704
Toluene	32	2.1		mg/Kg	50	10/27/2017 11:35:47 AM	B46704
Ethylbenzene	13	2.1		mg/Kg	50	10/27/2017 11:35:47 AM	B46704
Xylenes, Total	130	4.3		mg/Kg	50	10/27/2017 11:35:47 AM	B46704
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	50	10/27/2017 11:35:47 AM	B46704

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

Qualifiers:

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

Analytical Report
Lab Order **1710E43**
Date Reported: **10/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P2-T22
Project: Largo Compressor Station **Collection Date:** 10/26/2017 11:15:00 AM
Lab ID: 1710E43-002 **Matrix:** MEOH (SOIL) **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	280	9.5		mg/Kg	1	10/27/2017 12:15:53 PM	34675
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	10/27/2017 12:15:53 PM	34675
Surr: DNOP	96.6	70-130		%Rec	1	10/27/2017 12:15:53 PM	34675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3600	210		mg/Kg	50	10/27/2017 11:59:17 AM	G46704
Surr: BFB	324	15-316	S	%Rec	50	10/27/2017 11:59:17 AM	G46704
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.1		mg/Kg	50	10/27/2017 11:59:17 AM	B46704
Toluene	13	2.1		mg/Kg	50	10/27/2017 11:59:17 AM	B46704
Ethylbenzene	8.5	2.1		mg/Kg	50	10/27/2017 11:59:17 AM	B46704
Xylenes, Total	120	4.3		mg/Kg	50	10/27/2017 11:59:17 AM	B46704
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	50	10/27/2017 11:59:17 AM	B46704

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

Qualifiers:

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

Analytical Report
Lab Order **1710E43**
Date Reported: **10/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P2-T23
Project: Largo Compressor Station **Collection Date:** 10/26/2017 11:20:00 AM
Lab ID: 1710E43-003 **Matrix:** MEOH (SOIL) **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	10/27/2017 12:40:04 PM	34675
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2017 12:40:04 PM	34675
Surr: DNOP	93.0	70-130		%Rec	1	10/27/2017 12:40:04 PM	34675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1200	290		mg/Kg	50	10/27/2017 12:22:48 PM	G46704
Surr: BFB	127	15-316		%Rec	50	10/27/2017 12:22:48 PM	G46704
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.5		mg/Kg	50	10/27/2017 12:22:48 PM	B46704
Toluene	9.8	2.9		mg/Kg	50	10/27/2017 12:22:48 PM	B46704
Ethylbenzene	4.0	2.9		mg/Kg	50	10/27/2017 12:22:48 PM	B46704
Xylenes, Total	34	5.8		mg/Kg	50	10/27/2017 12:22:48 PM	B46704
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	50	10/27/2017 12:22:48 PM	B46704

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

Qualifiers:

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

Analytical Report
Lab Order **1710E43**
Date Reported: **10/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P2-T24
Project: Largo Compressor Station **Collection Date:** 10/26/2017 11:25:00 AM
Lab ID: 1710E43-004 **Matrix:** MEOH (SOIL) **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	240	9.2		mg/Kg	1	10/27/2017 1:04:30 PM	34675
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	10/27/2017 1:04:30 PM	34675
Surr: DNOP	95.7	70-130		%Rec	1	10/27/2017 1:04:30 PM	34675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	11000	440		mg/Kg	100	10/27/2017 7:00:43 PM	G46704
Surr: BFB	221	15-316		%Rec	100	10/27/2017 7:00:43 PM	G46704
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	20	0.44		mg/Kg	20	10/27/2017 12:46:04 PM	B46704
Toluene	230	4.4		mg/Kg	100	10/27/2017 7:00:43 PM	B46704
Ethylbenzene	42	0.87		mg/Kg	20	10/27/2017 12:46:04 PM	B46704
Xylenes, Total	420	8.7		mg/Kg	100	10/27/2017 7:00:43 PM	B46704
Surr: 4-Bromofluorobenzene	150	80-120	S	%Rec	20	10/27/2017 12:46:04 PM	B46704

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

Qualifiers:

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

Analytical Report
Lab Order **1710E43**
Date Reported: **10/31/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** P2-T29
Project: Largo Compressor Station **Collection Date:** 10/26/2017 11:50:00 AM
Lab ID: 1710E43-005 **Matrix:** MEOH (SOIL) **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	18	9.0		mg/Kg	1	10/27/2017 1:28:54 PM	34675
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/27/2017 1:28:54 PM	34675
Surr: DNOP	97.4	70-130		%Rec	1	10/27/2017 1:28:54 PM	34675
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	710	20		mg/Kg	5	10/27/2017 1:09:31 PM	G46704
Surr: BFB	806	15-316	S	%Rec	5	10/27/2017 1:09:31 PM	G46704
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.10		mg/Kg	5	10/27/2017 1:09:31 PM	B46704
Toluene	ND	0.20		mg/Kg	5	10/27/2017 1:09:31 PM	B46704
Ethylbenzene	1.9	0.20		mg/Kg	5	10/27/2017 1:09:31 PM	B46704
Xylenes, Total	11	0.40		mg/Kg	5	10/27/2017 1:09:31 PM	B46704
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	5	10/27/2017 1:09:31 PM	B46704

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E43**
31-Oct-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **LCS-34675** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **34675** RunNo: **46696**
Prep Date: **10/27/2017** Analysis Date: **10/27/2017** SeqNo: **1487893** 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	96.5	73.2	114			
Surr: DNOP	4.2		5.000		83.0	70	130			

Sample ID **MB-34675** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **34675** RunNo: **46696**
Prep Date: **10/27/2017** Analysis Date: **10/27/2017** SeqNo: **1487894** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.1	70	130			

Sample ID **1710E43-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P1-T19** Batch ID: **34675** RunNo: **46697**
Prep Date: **10/27/2017** Analysis Date: **10/27/2017** SeqNo: **1488096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	410	9.8	49.02	312.4	208	55.8	122			S
Surr: DNOP	5.0		4.902		103	70	130			

Sample ID **1710E43-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P1-T19** Batch ID: **34675** RunNo: **46697**
Prep Date: **10/27/2017** Analysis Date: **10/27/2017** SeqNo: **1488353** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	290	9.9	49.65	312.4	-54.0	55.8	122	36.8	20	RS
Surr: DNOP	4.9		4.965		98.6	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E43**
31-Oct-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G46704**	RunNo: **46704**
Prep Date:	Analysis Date: **10/27/2017**	SeqNo: **1488186** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		83.3	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G46704**	RunNo: **46704**
Prep Date:	Analysis Date: **10/27/2017**	SeqNo: **1488187** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	75.9	131			
Surr: BFB	960		1000		96.1	15	316			

Sample ID **MB-34651**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488208** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		87.2	15	316			

Sample ID **LCS-34651**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488209** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.0	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E43**
31-Oct-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B46704**	RunNo: **46704**
Prep Date:	Analysis Date: **10/27/2017**	SeqNo: **1488226** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B46704**	RunNo: **46704**
Prep Date:	Analysis Date: **10/27/2017**	SeqNo: **1488227** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	77.3	128			
Toluene	0.94	0.050	1.000	0	94.4	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.8	81.6	129			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.5	80	120			

Sample ID **MB-34651**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488248** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Sample ID **LCS-34651**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **34651**	RunNo: **46704**
Prep Date: **10/26/2017**	Analysis Date: **10/27/2017**	SeqNo: **1488249** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1710E43 | RcptNo: 1

Received By: Sophia Campuzano 10/27/2017 8:00:00 AM

Completed By: Ashley Gallegos 10/27/2017 8:32:04 AM

Reviewed By: 10/27/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	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	3.1	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande Suite A
Aztec NM 87410
Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A Freeman
Phone: 505 345 3975
PO/SO #: 2250401121584

Sampler's Name: Chad D'Apont
Sampler's Signature:

Proj. No. 2250401121584
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021 / TPH GRO/DRO/MRO 8015

Lab use only
Due Date: 2.9+0.2(E)
Temp. of coolers when received (C°): =3.1
1 | 2 | 3 | 4 | 5
Page 1 of 7

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	AG 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	10/20/17	1100	X		P1-T19	0	16				1		1710E43-001
S	10/20/17	1115	X		P2-T22	0	14				1		-002
S	10/20/17	1120	X		P2-T23	0	14				1		-003
S	10/20/17	1125	X		P2-T24	0	14				1		-004
S	10/20/17	1150	X		P2-T29	0	8				1		-005

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ~~☐ 100% Rush~~ Next day

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/20/17	1545		10/24/17	1545
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/24/17	1941		10/27/17	0800
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Apex (Cost Rate)
Next Day 10-30-17

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 01, 2017

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

RE: Largo Compressor Station OrderNo.: 1710E44

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/27/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P1-T20
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:05:00 AM
Lab ID: 1710E44-001 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/30/2017 1:29:45 PM	34690
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/30/2017 1:29:45 PM	34690
Surr: DNOP	84.5	70-130		%Rec	1	10/30/2017 1:29:45 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2017 1:22:43 AM	34683
Surr: BFB	80.6	15-316		%Rec	1	10/29/2017 1:22:43 AM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/29/2017 1:22:43 AM	34683
Toluene	ND	0.048		mg/Kg	1	10/29/2017 1:22:43 AM	34683
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2017 1:22:43 AM	34683
Xylenes, Total	ND	0.096		mg/Kg	1	10/29/2017 1:22:43 AM	34683
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	10/29/2017 1:22:43 AM	34683

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

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P1-T21
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:10:00 AM
Lab ID: 1710E44-002 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/30/2017 1:57:37 PM	34690
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/30/2017 1:57:37 PM	34690
Surr: DNOP	80.2	70-130		%Rec	1	10/30/2017 1:57:37 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2017 1:46:04 AM	34683
Surr: BFB	118	15-316		%Rec	1	10/29/2017 1:46:04 AM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/29/2017 1:46:04 AM	34683
Toluene	ND	0.048		mg/Kg	1	10/29/2017 1:46:04 AM	34683
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2017 1:46:04 AM	34683
Xylenes, Total	ND	0.097		mg/Kg	1	10/29/2017 1:46:04 AM	34683
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	10/29/2017 1:46:04 AM	34683

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

Qualifiers:

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P2-T25
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:30:00 AM
Lab ID: 1710E44-003 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	370	9.4		mg/Kg	1	10/30/2017 2:25:52 PM	34690
Motor Oil Range Organics (MRO)	380	47		mg/Kg	1	10/30/2017 2:25:52 PM	34690
Surr: DNOP	98.2	70-130		%Rec	1	10/30/2017 2:25:52 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	6100	460		mg/Kg	100	10/30/2017 10:20:02 PM	34683
Surr: BFB	187	15-316		%Rec	100	10/30/2017 10:20:02 PM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	9.2	0.23		mg/Kg	10	10/29/2017 10:55:44 AM	34683
Toluene	55	4.6		mg/Kg	100	10/30/2017 10:20:02 PM	34683
Ethylbenzene	30	0.46		mg/Kg	10	10/29/2017 10:55:44 AM	34683
Xylenes, Total	260	9.2		mg/Kg	100	10/30/2017 10:20:02 PM	34683
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	100	10/30/2017 10:20:02 PM	34683

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

Qualifiers:

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P2-T26
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:35:00 AM
Lab ID: 1710E44-004 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	590	9.4		mg/Kg	1	10/30/2017 2:54:04 PM	34690
Motor Oil Range Organics (MRO)	640	47		mg/Kg	1	10/30/2017 2:54:04 PM	34690
Surr: DNOP	87.2	70-130		%Rec	1	10/30/2017 2:54:04 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	11000	930		mg/Kg	200	10/30/2017 10:43:29 PM	34683
Surr: BFB	161	15-316		%Rec	200	10/30/2017 10:43:29 PM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	17	0.23		mg/Kg	10	10/29/2017 11:42:27 AM	34683
Toluene	120	9.3		mg/Kg	200	10/30/2017 10:43:29 PM	34683
Ethylbenzene	56	9.3		mg/Kg	200	10/30/2017 10:43:29 PM	34683
Xylenes, Total	520	19		mg/Kg	200	10/30/2017 10:43:29 PM	34683
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	200	10/30/2017 10:43:29 PM	34683

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

Qualifiers:

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P2-T27
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:40:00 AM
Lab ID: 1710E44-005 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/30/2017 3:21:47 PM	34690
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/30/2017 3:21:47 PM	34690
Surr: DNOP	87.8	70-130		%Rec	1	10/30/2017 3:21:47 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2017 12:29:16 PM	34683
Surr: BFB	86.2	15-316		%Rec	1	10/29/2017 12:29:16 PM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/29/2017 12:29:16 PM	34683
Toluene	ND	0.048		mg/Kg	1	10/29/2017 12:29:16 PM	34683
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2017 12:29:16 PM	34683
Xylenes, Total	ND	0.097		mg/Kg	1	10/29/2017 12:29:16 PM	34683
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	10/29/2017 12:29:16 PM	34683

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

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: P2-T28
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:45:00 AM
Lab ID: 1710E44-006 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/31/2017 2:21:28 AM	34690
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/31/2017 2:21:28 AM	34690
Surr: DNOP	85.3	70-130		%Rec	1	10/31/2017 2:21:28 AM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	10	4.8		mg/Kg	1	10/29/2017 12:52:41 PM	34683
Surr: BFB	156	15-316		%Rec	1	10/29/2017 12:52:41 PM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/29/2017 12:52:41 PM	34683
Toluene	ND	0.048		mg/Kg	1	10/29/2017 12:52:41 PM	34683
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2017 12:52:41 PM	34683
Xylenes, Total	ND	0.097		mg/Kg	1	10/29/2017 12:52:41 PM	34683
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	10/29/2017 12:52:41 PM	34683

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

Qualifiers:

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

Analytical Report
Lab Order **1710E44**
Date Reported: **11/1/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN
Client Sample ID: SP-4
Project: Largo Compressor Station
Collection Date: 10/26/2017 11:55:00 AM
Lab ID: 1710E44-007 **Matrix:** SOIL **Received Date:** 10/27/2017 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/30/2017 4:17:25 PM	34690
Motor Oil Range Organics (MRO)	47	46		mg/Kg	1	10/30/2017 4:17:25 PM	34690
Surr: DNOP	81.7	70-130		%Rec	1	10/30/2017 4:17:25 PM	34690
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2017 1:16:14 PM	34683
Surr: BFB	84.5	15-316		%Rec	1	10/29/2017 1:16:14 PM	34683
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/29/2017 1:16:14 PM	34683
Toluene	ND	0.047		mg/Kg	1	10/29/2017 1:16:14 PM	34683
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2017 1:16:14 PM	34683
Xylenes, Total	ND	0.095		mg/Kg	1	10/29/2017 1:16:14 PM	34683
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	10/29/2017 1:16:14 PM	34683

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E44**
01-Nov-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID	**MB-34690**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**34690**	RunNo:	**46729**					
Prep Date:	**10/28/2017**	Analysis Date:	**10/30/2017**	SeqNo:	**1489218**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.8	70	130			

Sample ID	**LCS-34690**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**34690**	RunNo:	**46729**					
Prep Date:	**10/28/2017**	Analysis Date:	**10/30/2017**	SeqNo:	**1489220**	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	95.3	73.2	114			
Surr: DNOP	4.5		5.000		90.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E44**
01-Nov-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **MB-34683**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **34683**	RunNo: **46715**
Prep Date: **10/27/2017**	Analysis Date: **10/28/2017**	SeqNo: **1488474** 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	840		1000		84.0	15	316			

Sample ID **LCS-34683**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **34683**	RunNo: **46715**
Prep Date: **10/27/2017**	Analysis Date: **10/28/2017**	SeqNo: **1488475** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	75.9	131			
Surr: BFB	950		1000		95.2	15	316			

Sample ID **1710E44-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **P1-T21**	Batch ID: **34683**	RunNo: **46715**
Prep Date: **10/27/2017**	Analysis Date: **10/29/2017**	SeqNo: **1488478** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.08	3.915	94.1	77.8	128			
Surr: BFB	1400		963.4		141	15	316			

Sample ID **1710E44-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **P1-T21**	Batch ID: **34683**	RunNo: **46715**
Prep Date: **10/27/2017**	Analysis Date: **10/29/2017**	SeqNo: **1488479** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.37	3.915	97.5	77.8	128	4.02	20	
Surr: BFB	1200		974.7		126	15	316	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1710E44**
01-Nov-17

Client: APEX TITAN
Project: Largo Compressor Station

Sample ID **MB-34683** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **34683** RunNo: **46715**
Prep Date: **10/27/2017** Analysis Date: **10/28/2017** SeqNo: **1488512** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120			

Sample ID **LCS-34683** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **34683** RunNo: **46715**
Prep Date: **10/27/2017** Analysis Date: **10/28/2017** SeqNo: **1488513** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	77.3	128			
Toluene	0.96	0.050	1.000	0	95.8	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	95.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120			

Sample ID **1710E44-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **P1-T20** Batch ID: **34683** RunNo: **46715**
Prep Date: **10/27/2017** Analysis Date: **10/28/2017** SeqNo: **1488517** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9588	0	103	80.9	132			
Toluene	1.0	0.048	0.9588	0.009501	104	79.8	136			
Ethylbenzene	1.0	0.048	0.9588	0	105	79.4	140			
Xylenes, Total	3.1	0.096	2.876	0	107	78.5	142			
Surr: 4-Bromofluorobenzene	0.91		0.9588		95.1	80	120			

Sample ID **1710E44-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **P1-T20** Batch ID: **34683** RunNo: **46715**
Prep Date: **10/27/2017** Analysis Date: **10/28/2017** SeqNo: **1488518** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9597	0	105	80.9	132	2.82	20	
Toluene	1.0	0.048	0.9597	0.009501	105	79.8	136	1.40	20	
Ethylbenzene	1.0	0.048	0.9597	0	107	79.4	140	2.29	20	
Xylenes, Total	3.1	0.096	2.879	0	108	78.5	142	1.33	20	
Surr: 4-Bromofluorobenzene	0.95		0.9597		98.5	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1710E44 RcptNo: 1

Received By: Sophia Campuzano 10/27/2017 8:00:00 AM Sophia Campuzano

Completed By: Sophia Campuzano 10/27/2017 8:34:54 AM Sophia Campuzano

Reviewed By: DDS 10/27/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	3.1	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande
Suit A
Aztec N.M 87410

Project Manager K. Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A Freeman
Phone: 505-345-3975
PO/SO #: 2250410112154

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO 8015

Lab use only
Due Date:
2.9+0.2(cF) =3.1
Temp. of coolers when received (C°): 1 2 3 4 5

Page ____ of ____

Sampler's Name: Chad DAport
Sampler's Signature: [signature]

Proj. No.: 2250410112154
Project Name: Largo Compressor Station

1710E44

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	BTEX 8021	TPH GRO/DRO/MRO 8015	Lab Sample ID (Lab Use Only)
S	10/26/17	1105	X		P1-T20	0	16						X	X	-001
S	10/26/17	1110	X		P1-T21	0	8						X	X	-002
S	10/26/17	1130	X		P2-T25	0	16						X	X	-003
S	10/26/17	1135	X		P2-T26	0	16						X	X	-004
S	10/26/17	1140	X		P2-T27	0	10						X	X	-005
S	10/26/17	1145	X		P2-T28	0	8						X	X	-006
S	10/26/17	1155	X		SP-4	—	—						X	X	-007

Turn around time ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	10/26/17	1545	[signature]	10/26/17	1545
[signature]	10/26/17	1941	[signature]	10/27/17	0800

NOTES: Bill to Apex (Corp Rate)

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

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

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

November 27, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1711A62

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/21/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T30
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:00:00 AM
Lab ID: 1711A62-001 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	350	9.2		mg/Kg	1	11/21/2017 9:55:09 AM	35098
Motor Oil Range Organics (MRO)	160	46		mg/Kg	1	11/21/2017 9:55:09 AM	35098
Surr: DNOP	91.4	70-130		%Rec	1	11/21/2017 9:55:09 AM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	9500	1100		mg/Kg	200	11/21/2017 1:28:16 PM	35089
Surr: BFB	156	15-316		%Rec	200	11/21/2017 1:28:16 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	8.1	0.54		mg/Kg	20	11/21/2017 9:55:42 AM	35089
Toluene	65	1.1		mg/Kg	20	11/21/2017 9:55:42 AM	35089
Ethylbenzene	30	1.1		mg/Kg	20	11/21/2017 9:55:42 AM	35089
Xylenes, Total	240	2.2		mg/Kg	20	11/21/2017 9:55:42 AM	35089
Surr: 4-Bromofluorobenzene	130	80-120	S	%Rec	20	11/21/2017 9:55:42 AM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T31
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:10:00 AM
Lab ID: 1711A62-002 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	390	10		mg/Kg	1	11/21/2017 10:17:10 AM	35098
Motor Oil Range Organics (MRO)	250	50		mg/Kg	1	11/21/2017 10:17:10 AM	35098
Surr: DNOP	96.9	70-130		%Rec	1	11/21/2017 10:17:10 AM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	13000	910		mg/Kg	200	11/21/2017 5:46:43 PM	35089
Surr: BFB	177	15-316		%Rec	200	11/21/2017 5:46:43 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	17	0.46		mg/Kg	20	11/21/2017 10:19:15 AM	35089
Toluene	82	0.91		mg/Kg	20	11/21/2017 10:19:15 AM	35089
Ethylbenzene	44	0.91		mg/Kg	20	11/21/2017 10:19:15 AM	35089
Xylenes, Total	380	18		mg/Kg	200	11/21/2017 5:46:43 PM	35089
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	200	11/21/2017 5:46:43 PM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T32
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:20:00 AM
Lab ID: 1711A62-003 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/21/2017 10:38:59 AM	35098
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/21/2017 10:38:59 AM	35098
Surr: DNOP	91.2	70-130		%Rec	1	11/21/2017 10:38:59 AM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	170	4.5		mg/Kg	1	11/21/2017 10:42:50 AM	35089
Surr: BFB	490	15-316	S	%Rec	1	11/21/2017 10:42:50 AM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.13	0.022		mg/Kg	1	11/21/2017 10:42:50 AM	35089
Toluene	1.1	0.045		mg/Kg	1	11/21/2017 10:42:50 AM	35089
Ethylbenzene	0.47	0.045		mg/Kg	1	11/21/2017 10:42:50 AM	35089
Xylenes, Total	4.8	0.090		mg/Kg	1	11/21/2017 10:42:50 AM	35089
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	1	11/21/2017 10:42:50 AM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T33
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:30:00 AM
Lab ID: 1711A62-004 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	11/21/2017 11:00:59 AM	35098
Motor Oil Range Organics (MRO)	87	48		mg/Kg	1	11/21/2017 11:00:59 AM	35098
Surr: DNOP	94.0	70-130		%Rec	1	11/21/2017 11:00:59 AM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	5200	420		mg/Kg	100	11/21/2017 6:10:14 PM	35089
Surr: BFB	251	15-316		%Rec	100	11/21/2017 6:10:14 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.0	0.10		mg/Kg	5	11/21/2017 11:06:28 AM	35089
Toluene	25	4.2		mg/Kg	100	11/21/2017 6:10:14 PM	35089
Ethylbenzene	19	0.21		mg/Kg	5	11/21/2017 11:06:28 AM	35089
Xylenes, Total	200	8.3		mg/Kg	100	11/21/2017 6:10:14 PM	35089
Surr: 4-Bromofluorobenzene	290	80-120	S	%Rec	5	11/21/2017 11:06:28 AM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T34
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:40:00 AM
Lab ID: 1711A62-005 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	1500	95		mg/Kg	10	11/21/2017 11:22:54 AM	35098
Motor Oil Range Organics (MRO)	3100	480		mg/Kg	10	11/21/2017 11:22:54 AM	35098
Surr: DNOP	0	70-130	S	%Rec	10	11/21/2017 11:22:54 AM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	6900	220		mg/Kg	50	11/21/2017 11:30:08 AM	35089
Surr: BFB	376	15-316	S	%Rec	50	11/21/2017 11:30:08 AM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3.7	1.1		mg/Kg	50	11/21/2017 11:30:08 AM	35089
Toluene	28	2.2		mg/Kg	50	11/21/2017 11:30:08 AM	35089
Ethylbenzene	23	2.2		mg/Kg	50	11/21/2017 11:30:08 AM	35089
Xylenes, Total	240	4.3		mg/Kg	50	11/21/2017 11:30:08 AM	35089
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	50	11/21/2017 11:30:08 AM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T35
Project: Largo Compressor Station **Collection Date:** 11/20/2017 11:50:00 AM
Lab ID: 1711A62-006 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	770	99		mg/Kg	10	11/21/2017 1:13:13 PM	35098
Motor Oil Range Organics (MRO)	1200	500		mg/Kg	10	11/21/2017 1:13:13 PM	35098
Surr: DNOP	0	70-130	S	%Rec	10	11/21/2017 1:13:13 PM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	7900	440		mg/Kg	100	11/21/2017 6:33:45 PM	35089
Surr: BFB	280	15-316		%Rec	100	11/21/2017 6:33:45 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3.7	0.11		mg/Kg	5	11/21/2017 11:53:54 AM	35089
Toluene	66	4.4		mg/Kg	100	11/21/2017 6:33:45 PM	35089
Ethylbenzene	29	4.4		mg/Kg	100	11/21/2017 6:33:45 PM	35089
Xylenes, Total	350	8.9		mg/Kg	100	11/21/2017 6:33:45 PM	35089
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	100	11/21/2017 6:33:45 PM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T36
Project: Largo Compressor Station **Collection Date:** 11/20/2017 12:00:00 PM
Lab ID: 1711A62-007 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	190	9.6		mg/Kg	1	11/21/2017 1:35:20 PM	35098
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	11/21/2017 1:35:20 PM	35098
Surr: DNOP	105	70-130		%Rec	1	11/21/2017 1:35:20 PM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	120	4.1		mg/Kg	1	11/21/2017 6:57:16 PM	35089
Surr: BFB	1660	15-316	S	%Rec	1	11/21/2017 6:57:16 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	11/21/2017 6:57:16 PM	35089
Toluene	ND	0.041		mg/Kg	1	11/21/2017 6:57:16 PM	35089
Ethylbenzene	ND	0.041		mg/Kg	1	11/21/2017 6:57:16 PM	35089
Xylenes, Total	0.87	0.081		mg/Kg	1	11/21/2017 6:57:16 PM	35089
Surr: 4-Bromofluorobenzene	199	80-120	S	%Rec	1	11/21/2017 6:57:16 PM	35089

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

Qualifiers:

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

Analytical Report
Lab Order **1711A62**
Date Reported: **11/27/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T37
Project: Largo Compressor Station **Collection Date:** 11/20/2017 12:10:00 PM
Lab ID: 1711A62-008 **Matrix:** SOIL **Received Date:** 11/21/2017 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	400	9.7		mg/Kg	1	11/21/2017 12:29:01 PM	35098
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	11/21/2017 12:29:01 PM	35098
Surr: DNOP	95.7	70-130		%Rec	1	11/21/2017 12:29:01 PM	35098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	10000	200		mg/Kg	50	11/21/2017 12:41:32 PM	35089
Surr: BFB	582	15-316	S	%Rec	50	11/21/2017 12:41:32 PM	35089
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	9.1	1.0		mg/Kg	50	11/21/2017 12:41:32 PM	35089
Toluene	120	2.0		mg/Kg	50	11/21/2017 12:41:32 PM	35089
Ethylbenzene	41	2.0		mg/Kg	50	11/21/2017 12:41:32 PM	35089
Xylenes, Total	350	4.0		mg/Kg	50	11/21/2017 12:41:32 PM	35089
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	50	11/21/2017 12:41:32 PM	35089

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1711A62**
27-Nov-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-35098**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**35098**		RunNo:	**47256**				
Prep Date:	**11/21/2017**	Analysis Date:	**11/21/2017**		SeqNo:	**1507169**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.1	73.2	114			
Surr: DNOP	4.2		5.000		83.3	70	130			

Sample ID	**MB-35098**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**35098**		RunNo:	**47256**				
Prep Date:	**11/21/2017**	Analysis Date:	**11/21/2017**		SeqNo:	**1507170**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1711A62**
27-Nov-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-35089**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**35089**	RunNo:	**47279**					
Prep Date:	**11/20/2017**	Analysis Date:	**11/21/2017**	SeqNo:	**1508009**	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	920		1000		91.7	15	316			

Sample ID	**LCS-35089**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**35089**	RunNo:	**47279**					
Prep Date:	**11/20/2017**	Analysis Date:	**11/21/2017**	SeqNo:	**1508010**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.9	75.9	131			
Surr: BFB	1000		1000		104	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1711A62**
27-Nov-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-35089**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**35089**	RunNo:	**47279**					
Prep Date:	**11/20/2017**	Analysis Date:	**11/21/2017**	SeqNo:	**1508037**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	80	120			

Sample ID	**LCS-35089**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**35089**	RunNo:	**47279**					
Prep Date:	**11/20/2017**	Analysis Date:	**11/21/2017**	SeqNo:	**1508038**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	77.3	128			
Toluene	0.95	0.050	1.000	0	94.9	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1711A62 RcptNo: 1

Received By: Anne Thorne 11/21/2017 7:10:00 AM
Completed By: Anne Thorne 11/21/2017 7:18:28 AM
Reviewed By: JMO 11/22/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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	1.2	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suit A Aztec N.M 87410

Project Manager K. Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque N.M 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad W Apodaca

Sampler's Signature:

Proj. No. 725040112154

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021, TPH GRO/DRO/Lube 8015

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.2

1	2	3	4	5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	BTEX 8021	TPH GRO/DRO/Lube 8015	Lab Sample ID (Lab Use Only)
S	11/20/17	1100	X		P2-T30						1		X	X	1711A62-001
S	11/20/17	1110	X		P2-T31						1		X	X	002
S	11/20/17	1120	X		P2-T32						1		X	X	003
S	11/20/17	1130	X		P2-T33						1		X	X	004
S	11/20/17	1140	X		P2-T34						1		X	X	005
S	11/20/17	1150	X		P2-T35						1		X	X	006
S	11/20/17	1200	X		P2-T36						1		X	X	007
S	11/20/17	1210	X		P2-T37						1		X	X	008

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush — Rush see Notes

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	11-20-17	153		11/20/17	1535
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	11/20/17	2010		11/21/17	0710
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
15.11 to Apex (Cap Rate)
Due Wednesday 11-22-17
CC Seal on Jars

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 14, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1712716

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 12/13/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T38
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:00:00 AM
Lab ID: 1712716-001 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	11000	430		mg/Kg	100	12/13/2017 1:47:30 PM	R47745
Surr: BFB	95.9	70-130		%Rec	100	12/13/2017 1:47:30 PM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	180	9.6		mg/Kg	1	12/13/2017 9:27:53 AM	35476
Motor Oil Range Organics (MRO)	170	48		mg/Kg	1	12/13/2017 9:27:53 AM	35476
Surr: DNOP	103	70-130		%Rec	1	12/13/2017 9:27:53 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	7.9	0.43		mg/Kg	20	12/13/2017 9:34:58 AM	S47745
Toluene	20	0.85		mg/Kg	20	12/13/2017 9:34:58 AM	S47745
Ethylbenzene	29	0.85		mg/Kg	20	12/13/2017 9:34:58 AM	S47745
Xylenes, Total	270	8.5		mg/Kg	100	12/13/2017 1:47:30 PM	S47745
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	20	12/13/2017 9:34:58 AM	S47745
Surr: Toluene-d8	101	70-130		%Rec	20	12/13/2017 9:34:58 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T39
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:05:00 AM
Lab ID: 1712716-002 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	18000	1000		mg/Kg	200	12/13/2017 2:10:32 PM	R47745
Surr: BFB	96.0	70-130		%Rec	200	12/13/2017 2:10:32 PM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	550	10		mg/Kg	1	12/13/2017 9:49:48 AM	35476
Motor Oil Range Organics (MRO)	290	50		mg/Kg	1	12/13/2017 9:49:48 AM	35476
Surr: DNOP	104	70-130		%Rec	1	12/13/2017 9:49:48 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	17	0.50		mg/Kg	20	12/13/2017 9:57:50 AM	S47745
Toluene	180	10		mg/Kg	200	12/13/2017 2:10:32 PM	S47745
Ethylbenzene	54	1.0		mg/Kg	20	12/13/2017 9:57:50 AM	S47745
Xylenes, Total	490	20		mg/Kg	200	12/13/2017 2:10:32 PM	S47745
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	20	12/13/2017 9:57:50 AM	S47745
Surr: Toluene-d8	110	70-130		%Rec	20	12/13/2017 9:57:50 AM	S47745

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

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T40
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:10:00 AM
Lab ID: 1712716-003 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	13000	290		mg/Kg	50	12/13/2017 10:20:42 AM	R47745
Surr: BFB	105	70-130		%Rec	50	12/13/2017 10:20:42 AM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	190	9.8		mg/Kg	1	12/13/2017 10:11:48 AM	35476
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	12/13/2017 10:11:48 AM	35476
Surr: DNOP	103	70-130		%Rec	1	12/13/2017 10:11:48 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	6.8	1.5		mg/Kg	50	12/13/2017 10:20:42 AM	S47745
Toluene	120	2.9		mg/Kg	50	12/13/2017 10:20:42 AM	S47745
Ethylbenzene	29	2.9		mg/Kg	50	12/13/2017 10:20:42 AM	S47745
Xylenes, Total	270	5.8		mg/Kg	50	12/13/2017 10:20:42 AM	S47745
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	50	12/13/2017 10:20:42 AM	S47745
Surr: Toluene-d8	105	70-130		%Rec	50	12/13/2017 10:20:42 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T41
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:15:00 AM
Lab ID: 1712716-004 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	4500	97		mg/Kg	20	12/13/2017 10:43:38 AM	R47745
Surr: BFB	102	70-130		%Rec	20	12/13/2017 10:43:38 AM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	100	10		mg/Kg	1	12/13/2017 10:33:54 AM	35476
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/13/2017 10:33:54 AM	35476
Surr: DNOP	98.4	70-130		%Rec	1	12/13/2017 10:33:54 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.45	0.39		mg/Kg	20	12/13/2017 10:43:38 AM	S47745
Toluene	3.0	0.97		mg/Kg	20	12/13/2017 10:43:38 AM	S47745
Ethylbenzene	9.6	0.97		mg/Kg	20	12/13/2017 10:43:38 AM	S47745
Xylenes, Total	98	1.9		mg/Kg	20	12/13/2017 10:43:38 AM	S47745
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	20	12/13/2017 10:43:38 AM	S47745
Surr: Toluene-d8	102	70-130		%Rec	20	12/13/2017 10:43:38 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T42
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:20:00 AM
Lab ID: 1712716-005 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	8400	270		mg/Kg	50	12/13/2017 11:06:33 AM	R47745
Surr: BFB	106	70-130		%Rec	50	12/13/2017 11:06:33 AM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	90	9.5		mg/Kg	1	12/13/2017 10:55:59 AM	35476
Motor Oil Range Organics (MRO)	90	47		mg/Kg	1	12/13/2017 10:55:59 AM	35476
Surr: DNOP	98.2	70-130		%Rec	1	12/13/2017 10:55:59 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	3.4	1.3		mg/Kg	50	12/13/2017 11:06:33 AM	S47745
Toluene	19	2.7		mg/Kg	50	12/13/2017 11:06:33 AM	S47745
Ethylbenzene	13	2.7		mg/Kg	50	12/13/2017 11:06:33 AM	S47745
Xylenes, Total	100	5.4		mg/Kg	50	12/13/2017 11:06:33 AM	S47745
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	50	12/13/2017 11:06:33 AM	S47745
Surr: Toluene-d8	106	70-130		%Rec	50	12/13/2017 11:06:33 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T43
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:25:00 AM
Lab ID: 1712716-006 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	1700	99		mg/Kg	20	12/13/2017 11:29:30 AM	R47745
Surr: BFB	105	70-130		%Rec	20	12/13/2017 11:29:30 AM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	28	9.8		mg/Kg	1	12/13/2017 11:49:06 AM	35476
Motor Oil Range Organics (MRO)	57	49		mg/Kg	1	12/13/2017 11:49:06 AM	35476
Surr: DNOP	104	70-130		%Rec	1	12/13/2017 11:49:06 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	1.6	0.49		mg/Kg	20	12/13/2017 11:29:30 AM	S47745
Toluene	13	0.99		mg/Kg	20	12/13/2017 11:29:30 AM	S47745
Ethylbenzene	2.5	0.99		mg/Kg	20	12/13/2017 11:29:30 AM	S47745
Xylenes, Total	19	2.0		mg/Kg	20	12/13/2017 11:29:30 AM	S47745
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	20	12/13/2017 11:29:30 AM	S47745
Surr: Toluene-d8	104	70-130		%Rec	20	12/13/2017 11:29:30 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T44
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:30:00 AM
Lab ID: 1712716-007 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	6000	210		mg/Kg	50	12/13/2017 11:52:27 AM	R47745
Surr: BFB	102	70-130		%Rec	50	12/13/2017 11:52:27 AM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	460	9.6		mg/Kg	1	12/13/2017 11:24:46 AM	35476
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	12/13/2017 11:24:46 AM	35476
Surr: DNOP	102	70-130		%Rec	1	12/13/2017 11:24:46 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	2.5	1.1		mg/Kg	50	12/13/2017 11:52:27 AM	S47745
Toluene	38	2.1		mg/Kg	50	12/13/2017 11:52:27 AM	S47745
Ethylbenzene	12	2.1		mg/Kg	50	12/13/2017 11:52:27 AM	S47745
Xylenes, Total	100	4.3		mg/Kg	50	12/13/2017 11:52:27 AM	S47745
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	50	12/13/2017 11:52:27 AM	S47745
Surr: Toluene-d8	103	70-130		%Rec	50	12/13/2017 11:52:27 AM	S47745

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

Qualifiers:

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

Analytical Report
Lab Order **1712716**
Date Reported: **12/14/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T45
Project: Largo Compressor Station **Collection Date:** 12/12/2017 10:35:00 AM
Lab ID: 1712716-008 **Matrix:** SOIL **Received Date:** 12/13/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	480	71		mg/Kg	20	12/13/2017 12:15:24 PM	R47745
Surr: BFB	107	70-130		%Rec	20	12/13/2017 12:15:24 PM	R47745
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	70	9.7		mg/Kg	1	12/13/2017 11:00:15 AM	35476
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/13/2017 11:00:15 AM	35476
Surr: DNOP	106	70-130		%Rec	1	12/13/2017 11:00:15 AM	35476
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.35		mg/Kg	20	12/13/2017 12:15:24 PM	S47745
Toluene	ND	0.35		mg/Kg	20	12/13/2017 12:15:24 PM	S47745
Ethylbenzene	0.38	0.35		mg/Kg	20	12/13/2017 12:15:24 PM	S47745
Xylenes, Total	1.9	0.71		mg/Kg	20	12/13/2017 12:15:24 PM	S47745
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	20	12/13/2017 12:15:24 PM	S47745
Surr: Toluene-d8	103	70-130		%Rec	20	12/13/2017 12:15:24 PM	S47745

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712716**
14-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-35476**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**35476**		RunNo:	**47737**				
Prep Date:	**12/13/2017**	Analysis Date:	**12/13/2017**		SeqNo:	**1526304**	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	91.4	73.2	114			
Surr: DNOP	4.5		5.000		89.2	70	130			

Sample ID	**MB-35476**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**35476**		RunNo:	**47737**				
Prep Date:	**12/13/2017**	Analysis Date:	**12/13/2017**		SeqNo:	**1526305**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	70	130			

Sample ID	**LCS-35468**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**35468**		RunNo:	**47737**				
Prep Date:	**12/12/2017**	Analysis Date:	**12/13/2017**		SeqNo:	**1526766**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID	**MB-35468**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**35468**		RunNo:	**47737**				
Prep Date:	**12/12/2017**	Analysis Date:	**12/13/2017**		SeqNo:	**1526767**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712716**
14-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **S47745**	RunNo: **47745**
Prep Date:	Analysis Date: **12/13/2017**	SeqNo: **1526481** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0		0.5000		0	70	130			S
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.9	70	130			
Surr: Dibromofluoromethane	0		0.5000		0	70	130			S
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **S47745**	RunNo: **47745**
Prep Date:	Analysis Date: **12/13/2017**	SeqNo: **1527038** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	105	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	101	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.8	70	130			
Surr: Toluene-d8	0.50		0.5000		99.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712716**
14-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **R47745**	RunNo: **47745**
Prep Date:	Analysis Date: **12/13/2017**	SeqNo: **1526492** 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	500		500.0		101	70	130			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R47745**	RunNo: **47745**
Prep Date:	Analysis Date: **12/13/2017**	SeqNo: **1527037** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.5	70	130			
Surr: BFB	480		500.0		95.8	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1712716 RcptNo: 1

Received By: **Anne Thorne** 12/13/2017 7:00:00 AM Anne Thorne
Completed By: **Anne Thorne** 12/13/2017 7:12:16 AM Anne Thorne
Reviewed By: DDS 12/13/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
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 ☐	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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A
Aztec NM 87410
Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A. Freeman
Phone: 505 345 3975
PO/SO #: 735040 112154

Sampler's Name: Chad D'Aponte
Sampler's Signature:

Proj. No.: 735040.112154
Project Name: Lindrith Compressor Station
No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021, TPH GRO DRO ORO 8015

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/12/17	1000	X		P2 - T38	6	17				1		1712716-001
S	12/12/17	1005	X		P2 - T39	6	17				1		-002
S	12/12/17	1010	X		P2 - T40	6	17				1		-003
S	12/12/17	1015	X		P2 - T41	2	17				1		-004
S	12/12/17	1020	X		P2 - T42	2	17				1		-005
S	12/12/17	1025	X		P2 - T43	2	17				1		-006
S	12/12/17	1030	X		P2 - T44	2	17				1		-007
S	12/12/17	1035	X		P2 - T45	2	17				1		-008
													~~-009~~
													Ar 12/13/17

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/12/17	1332		12/12/17	1332
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/12/17	1921		12/13/17	0700
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Apex (Coip Rates)
Same day 12-13-17
COC Seals on jars

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 18, 2017

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1712837

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/14/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T46
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:00:00 PM
Lab ID: 1712837-001 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	7800	190		mg/Kg	50	12/14/2017 10:42:28 AM	A47798
Surr: BFB	95.6	70-130		%Rec	50	12/14/2017 10:42:28 AM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	380	10		mg/Kg	1	12/15/2017 10:32:22 AM	35521
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	12/15/2017 10:32:22 AM	35521
Surr: DNOP	106	70-130		%Rec	1	12/15/2017 10:32:22 AM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	1.7	0.95		mg/Kg	50	12/14/2017 10:42:28 AM	B47798
Toluene	13	1.9		mg/Kg	50	12/14/2017 10:42:28 AM	B47798
Ethylbenzene	12	1.9		mg/Kg	50	12/14/2017 10:42:28 AM	B47798
Xylenes, Total	130	3.8		mg/Kg	50	12/14/2017 10:42:28 AM	B47798
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	50	12/14/2017 10:42:28 AM	B47798
Surr: Toluene-d8	103	70-130		%Rec	50	12/14/2017 10:42:28 AM	B47798

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

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T47
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:05:00 PM
Lab ID: 1712837-002 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	640	25		mg/Kg	5	12/14/2017 11:05:19 AM	A47798
Surr: BFB	98.2	70-130		%Rec	5	12/14/2017 11:05:19 AM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	120	9.2		mg/Kg	1	12/15/2017 10:56:41 AM	35521
Motor Oil Range Organics (MRO)	57	46		mg/Kg	1	12/15/2017 10:56:41 AM	35521
Surr: DNOP	102	70-130		%Rec	1	12/15/2017 10:56:41 AM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.31	0.12		mg/Kg	5	12/14/2017 11:05:19 AM	B47798
Toluene	2.7	0.25		mg/Kg	5	12/14/2017 11:05:19 AM	B47798
Ethylbenzene	1.5	0.25		mg/Kg	5	12/14/2017 11:05:19 AM	B47798
Xylenes, Total	11	0.50		mg/Kg	5	12/14/2017 11:05:19 AM	B47798
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	5	12/14/2017 11:05:19 AM	B47798
Surr: Toluene-d8	105	70-130		%Rec	5	12/14/2017 11:05:19 AM	B47798

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

Qualifiers:

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T48
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:10:00 PM
Lab ID: 1712837-003 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	4000	230		mg/Kg	50	12/14/2017 11:28:25 AM	A47798
Surr: BFB	99.2	70-130		%Rec	50	12/14/2017 11:28:25 AM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	310	9.3		mg/Kg	1	12/15/2017 11:21:06 AM	35521
Motor Oil Range Organics (MRO)	130	46		mg/Kg	1	12/15/2017 11:21:06 AM	35521
Surr: DNOP	107	70-130		%Rec	1	12/15/2017 11:21:06 AM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	2.0	1.1		mg/Kg	50	12/14/2017 11:28:25 AM	B47798
Toluene	13	2.3		mg/Kg	50	12/14/2017 11:28:25 AM	B47798
Ethylbenzene	8.8	2.3		mg/Kg	50	12/14/2017 11:28:25 AM	B47798
Xylenes, Total	81	4.6		mg/Kg	50	12/14/2017 11:28:25 AM	B47798
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	50	12/14/2017 11:28:25 AM	B47798
Surr: Toluene-d8	102	70-130		%Rec	50	12/14/2017 11:28:25 AM	B47798

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

Qualifiers:

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T49
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:15:00 PM
Lab ID: 1712837-004 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	180	4.1		mg/Kg	1	12/14/2017 11:51:28 AM	A47798
Surr: BFB	95.9	70-130		%Rec	1	12/14/2017 11:51:28 AM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/15/2017 11:45:28 AM	35521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/15/2017 11:45:28 AM	35521
Surr: DNOP	101	70-130		%Rec	1	12/15/2017 11:45:28 AM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.060	0.021		mg/Kg	1	12/14/2017 11:51:28 AM	B47798
Toluene	0.12	0.041		mg/Kg	1	12/14/2017 11:51:28 AM	B47798
Ethylbenzene	0.18	0.041		mg/Kg	1	12/14/2017 11:51:28 AM	B47798
Xylenes, Total	2.9	0.083		mg/Kg	1	12/14/2017 11:51:28 AM	B47798
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	12/14/2017 11:51:28 AM	B47798
Surr: Toluene-d8	96.2	70-130		%Rec	1	12/14/2017 11:51:28 AM	B47798

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

Qualifiers:

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T50
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:20:00 PM
Lab ID: 1712837-005 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	290	99		mg/Kg	20	12/14/2017 12:14:30 PM	A47798
Surr: BFB	104	70-130		%Rec	20	12/14/2017 12:14:30 PM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	7500	97		mg/Kg	10	12/15/2017 1:47:39 PM	35521
Motor Oil Range Organics (MRO)	620	480		mg/Kg	10	12/15/2017 1:47:39 PM	35521
Surr: DNOP	0	70-130	S	%Rec	10	12/15/2017 1:47:39 PM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.44	0.40		mg/Kg	20	12/14/2017 12:14:30 PM	B47798
Toluene	1.8	0.50		mg/Kg	20	12/14/2017 12:14:30 PM	B47798
Ethylbenzene	0.79	0.50		mg/Kg	20	12/14/2017 12:14:30 PM	B47798
Xylenes, Total	5.1	0.99		mg/Kg	20	12/14/2017 12:14:30 PM	B47798
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	20	12/14/2017 12:14:30 PM	B47798
Surr: Toluene-d8	103	70-130		%Rec	20	12/14/2017 12:14:30 PM	B47798

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

Qualifiers:

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T51
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:25:00 PM
Lab ID: 1712837-006 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	12/14/2017 3:18:49 PM	A47798
Surr: BFB	102	70-130		%Rec	1	12/14/2017 3:18:49 PM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/15/2017 12:58:44 PM	35521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/15/2017 12:58:44 PM	35521
Surr: DNOP	102	70-130		%Rec	1	12/15/2017 12:58:44 PM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.021		mg/Kg	1	12/14/2017 3:18:49 PM	B47798
Toluene	ND	0.043		mg/Kg	1	12/14/2017 3:18:49 PM	B47798
Ethylbenzene	ND	0.043		mg/Kg	1	12/14/2017 3:18:49 PM	B47798
Xylenes, Total	ND	0.086		mg/Kg	1	12/14/2017 3:18:49 PM	B47798
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/14/2017 3:18:49 PM	B47798
Surr: Toluene-d8	97.0	70-130		%Rec	1	12/14/2017 3:18:49 PM	B47798

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

Qualifiers:

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

Analytical Report
Lab Order **1712837**
Date Reported: **12/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T52
Project: Largo Compressor Station **Collection Date:** 12/13/2017 1:30:00 PM
Lab ID: 1712837-007 **Matrix:** SOIL **Received Date:** 12/14/2017 6:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2017 1:00:30 PM	A47798
Surr: BFB	104	70-130		%Rec	1	12/14/2017 1:00:30 PM	A47798
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/15/2017 1:23:07 PM	35521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/15/2017 1:23:07 PM	35521
Surr: DNOP	104	70-130		%Rec	1	12/15/2017 1:23:07 PM	35521
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	12/14/2017 1:00:30 PM	B47798
Toluene	ND	0.046		mg/Kg	1	12/14/2017 1:00:30 PM	B47798
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2017 1:00:30 PM	B47798
Xylenes, Total	ND	0.092		mg/Kg	1	12/14/2017 1:00:30 PM	B47798
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/14/2017 1:00:30 PM	B47798
Surr: Toluene-d8	96.5	70-130		%Rec	1	12/14/2017 1:00:30 PM	B47798

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712837**
18-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **LCS-35531**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **35531**	RunNo: **47811**
Prep Date: **12/15/2017**	Analysis Date: **12/15/2017**	SeqNo: **1529467** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.2	70	130			

Sample ID **MB-35531**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **35531**	RunNo: **47811**
Prep Date: **12/15/2017**	Analysis Date: **12/15/2017**	SeqNo: **1529468** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.1	70	130			

Sample ID **LCS-35521**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **35521**	RunNo: **47812**
Prep Date: **12/14/2017**	Analysis Date: **12/15/2017**	SeqNo: **1529603** 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	95.2	73.2	114			
Surr: DNOP	4.3		5.000		85.8	70	130			

Sample ID **MB-35521**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **35521**	RunNo: **47812**
Prep Date: **12/14/2017**	Analysis Date: **12/15/2017**	SeqNo: **1529604** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712837**
18-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS**	Batch ID: **B47798**	RunNo: **47798**
Prep Date:	Analysis Date: **12/14/2017**	SeqNo: **1528749** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	70	130			
Toluene	1.1	0.050	1.000	0	111	70	130			
Ethylbenzene	1.1	0.050	1.000	0	107	70	130			
Xylenes, Total	3.2	0.10	3.000	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	0		0.5000		0	70	130			S
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.7	70	130			
Surr: Dibromofluoromethane	0		0.5000		0	70	130			S
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **B47798**	RunNo: **47798**
Prep Date:	Analysis Date: **12/14/2017**	SeqNo: **1528750** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0		0.5000		0	70	130			S
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0		0.5000		0	70	130			S
Surr: Toluene-d8	0.52		0.5000		105	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1712837**
18-Dec-17

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A47798**	RunNo: **47798**
Prep Date:	Analysis Date: **12/14/2017**	SeqNo: **1528511** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	70	130			
Surr: BFB	0		500.0		0	70	130			S

Sample ID **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **A47798**	RunNo: **47798**
Prep Date:	Analysis Date: **12/14/2017**	SeqNo: **1528544** 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	520		500.0		104	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1712837 RcptNo: 1

Received By: Anne Thorne 12/14/2017 6:55:00 AM
Completed By: Anne Thorne 12/14/2017 7:41:13 AM
Reviewed By: JMO 12/14/17

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
5. Were all samples received at a temperature of >0° 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	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A
Aztec NM 87410
Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque 87109
Contact: A Eveman
Phone: 505-345-3975
PO/SO #: 225040112154

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 | 2 | 3 | 4 | 5
Page 1 of 1

Sampler's Name: Chad D'Apoli
Sampler's Signature:

Proj. No.: 225040112154
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021, TPH GRO/DRO/MRO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	12/13/17	1300	X		P2-T46	2	17				1		1712837-001
S	12/13/17	1305	X		P2-T47	2	17				1		002
S	12/13/17	1310	X		P2-T48	2	17				1		003
S	12/13/17	1315	X		P2-T49	2	17				1		004
S	12/13/17	1320	X		P2-T50	2	17				1		005
S	12/13/17	1325	X		P2-T51	2	17				1		006
S	12/13/17	1330	X		P2-T52	14	17				1		007
~~S~~	~~12/13/17~~	~~1335~~	X		P2-T53						1		

CD

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush See Notes

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	12/13/17	1520		12/13/17	1520
	12/13/17	1821		12/13/17	1821
	12/13/17	2011		12/15/17	0655
	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Apex (Corp Rate)
Next Day 12-15-17
COC Seals

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

February 07, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1802145

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T53
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:00:00 PM
Lab ID: 1802145-001 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/6/2018 10:34:25 AM	36339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/6/2018 10:34:25 AM	36339
Surr: DNOP	88.4	70-130		%Rec	1	2/6/2018 10:34:25 AM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/5/2018 11:53:20 AM	G48901
Surr: BFB	105	15-316		%Rec	1	2/5/2018 11:53:20 AM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	2/5/2018 11:53:20 AM	B48901
Toluene	ND	0.040		mg/Kg	1	2/5/2018 11:53:20 AM	B48901
Ethylbenzene	ND	0.040		mg/Kg	1	2/5/2018 11:53:20 AM	B48901
Xylenes, Total	ND	0.080		mg/Kg	1	2/5/2018 11:53:20 AM	B48901
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	2/5/2018 11:53:20 AM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T54
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:05:00 PM
Lab ID: 1802145-002 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/6/2018 11:01:59 AM	36339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/6/2018 11:01:59 AM	36339
Surr: DNOP	86.3	70-130		%Rec	1	2/6/2018 11:01:59 AM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/5/2018 1:03:18 PM	G48901
Surr: BFB	100	15-316		%Rec	1	2/5/2018 1:03:18 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	2/5/2018 1:03:18 PM	B48901
Toluene	ND	0.040		mg/Kg	1	2/5/2018 1:03:18 PM	B48901
Ethylbenzene	ND	0.040		mg/Kg	1	2/5/2018 1:03:18 PM	B48901
Xylenes, Total	ND	0.081		mg/Kg	1	2/5/2018 1:03:18 PM	B48901
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	2/5/2018 1:03:18 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T55
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:10:00 PM
Lab ID: 1802145-003 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/6/2018 11:29:46 AM	36339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/6/2018 11:29:46 AM	36339
Surr: DNOP	85.4	70-130		%Rec	1	2/6/2018 11:29:46 AM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/5/2018 2:13:31 PM	G48901
Surr: BFB	98.8	15-316		%Rec	1	2/5/2018 2:13:31 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/5/2018 2:13:31 PM	B48901
Toluene	ND	0.050		mg/Kg	1	2/5/2018 2:13:31 PM	B48901
Ethylbenzene	ND	0.050		mg/Kg	1	2/5/2018 2:13:31 PM	B48901
Xylenes, Total	ND	0.10		mg/Kg	1	2/5/2018 2:13:31 PM	B48901
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	2/5/2018 2:13:31 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T56
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:15:00 PM
Lab ID: 1802145-004 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/6/2018 11:57:36 AM	36339
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	2/6/2018 11:57:36 AM	36339
Surr: DNOP	79.8	70-130		%Rec	1	2/6/2018 11:57:36 AM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	2/5/2018 2:36:46 PM	G48901
Surr: BFB	101	15-316		%Rec	1	2/5/2018 2:36:46 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	2/5/2018 2:36:46 PM	B48901
Toluene	ND	0.045		mg/Kg	1	2/5/2018 2:36:46 PM	B48901
Ethylbenzene	ND	0.045		mg/Kg	1	2/5/2018 2:36:46 PM	B48901
Xylenes, Total	ND	0.090		mg/Kg	1	2/5/2018 2:36:46 PM	B48901
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	2/5/2018 2:36:46 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T57
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:20:00 PM
Lab ID: 1802145-005 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/6/2018 12:25:51 PM	36339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/6/2018 12:25:51 PM	36339
Surr: DNOP	94.8	70-130		%Rec	1	2/6/2018 12:25:51 PM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/5/2018 3:00:04 PM	G48901
Surr: BFB	99.3	15-316		%Rec	1	2/5/2018 3:00:04 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/5/2018 3:00:04 PM	B48901
Toluene	ND	0.048		mg/Kg	1	2/5/2018 3:00:04 PM	B48901
Ethylbenzene	ND	0.048		mg/Kg	1	2/5/2018 3:00:04 PM	B48901
Xylenes, Total	ND	0.096		mg/Kg	1	2/5/2018 3:00:04 PM	B48901
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/5/2018 3:00:04 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T58
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:25:00 PM
Lab ID: 1802145-006 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/6/2018 12:53:56 PM	36339
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/6/2018 12:53:56 PM	36339
Surr: DNOP	90.9	70-130		%Rec	1	2/6/2018 12:53:56 PM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/5/2018 3:23:22 PM	G48901
Surr: BFB	96.7	15-316		%Rec	1	2/5/2018 3:23:22 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	2/5/2018 3:23:22 PM	B48901
Toluene	ND	0.036		mg/Kg	1	2/5/2018 3:23:22 PM	B48901
Ethylbenzene	ND	0.036		mg/Kg	1	2/5/2018 3:23:22 PM	B48901
Xylenes, Total	ND	0.072		mg/Kg	1	2/5/2018 3:23:22 PM	B48901
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	2/5/2018 3:23:22 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T59
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:30:00 PM
Lab ID: 1802145-007 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/6/2018 1:21:30 PM	36339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/6/2018 1:21:30 PM	36339
Surr: DNOP	89.2	70-130		%Rec	1	2/6/2018 1:21:30 PM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/5/2018 5:19:39 PM	G48901
Surr: BFB	95.8	15-316		%Rec	1	2/5/2018 5:19:39 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/5/2018 5:19:39 PM	B48901
Toluene	ND	0.049		mg/Kg	1	2/5/2018 5:19:39 PM	B48901
Ethylbenzene	ND	0.049		mg/Kg	1	2/5/2018 5:19:39 PM	B48901
Xylenes, Total	ND	0.098		mg/Kg	1	2/5/2018 5:19:39 PM	B48901
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	2/5/2018 5:19:39 PM	B48901

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

Qualifiers:

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

Analytical Report
Lab Order **1802145**
Date Reported: **2/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T60
Project: Largo Compressor Station **Collection Date:** 2/2/2018 1:35:00 PM
Lab ID: 1802145-008 **Matrix:** SOIL **Received Date:** 2/3/2018 11:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/6/2018 1:49:04 PM	36339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/6/2018 1:49:04 PM	36339
Surr: DNOP	91.2	70-130		%Rec	1	2/6/2018 1:49:04 PM	36339
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/5/2018 3:46:36 PM	G48901
Surr: BFB	96.5	15-316		%Rec	1	2/5/2018 3:46:36 PM	G48901
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	2/5/2018 3:46:36 PM	B48901
Toluene	ND	0.041		mg/Kg	1	2/5/2018 3:46:36 PM	B48901
Ethylbenzene	ND	0.041		mg/Kg	1	2/5/2018 3:46:36 PM	B48901
Xylenes, Total	ND	0.083		mg/Kg	1	2/5/2018 3:46:36 PM	B48901
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/5/2018 3:46:36 PM	B48901

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802145**
07-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **LCS-36339**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **36339**	RunNo: **48920**
Prep Date: **2/5/2018**	Analysis Date: **2/6/2018**	SeqNo: **1574284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.3	70	130			
Surr: DNOP	4.2		5.000		84.7	70	130			

Sample ID **MB-36339**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **36339**	RunNo: **48920**
Prep Date: **2/5/2018**	Analysis Date: **2/6/2018**	SeqNo: **1574285** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.9	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802145**
07-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G48901**	RunNo: **48901**
Prep Date:	Analysis Date: **2/5/2018**	SeqNo: **1573666** 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	970		1000		96.8	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G48901**	RunNo: **48901**
Prep Date:	Analysis Date: **2/5/2018**	SeqNo: **1573667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	79.9	75.9	131			
Surr: BFB	1100		1000		106	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802145**
07-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B48901**	RunNo: **48901**
Prep Date:	Analysis Date: **2/5/2018**	SeqNo: **1573683** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B48901**	RunNo: **48901**
Prep Date:	Analysis Date: **2/5/2018**	SeqNo: **1573684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	77.3	128			
Toluene	1.0	0.050	1.000	0	100	79.2	125			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	100	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1802145 RcptNo: 1

Received By: **Dennis Suazo** 2/3/2018 11:45:00 AM

Completed By: **Anne Thorne** 2/5/2018 7:09:31 AM

Reviewed By: 2/5/2018

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 2/5/18

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A
Aztec NM 87410
Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A Fireman
Phone: 505-345-3975
PO/SO #: 725040113154

Sampler's Name: Chad D Apont
Sampler's Signature:

Lab use only
Due Date:
Temp. of coolers when received (C°): 2.8 0.6 3.4 | 2 | 3 | 4 | 5
Page 1 of 1

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO 8015

Proj. No.: 725040113154
Project Name: Largo Compressor Station
No/Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	2/1/18	1300	X		P2-T53						1		1802145-001
S	2/1/18	1305	X		P2-T54						1		002
S	2/1/18	1310	X		P2-T55						1		003
S	2/1/18	1315	X		P2-T56						1		004
S	2/1/18	1320	X		P2-T57						1		005
S	2/1/18	1325	X		P2-T58						1		006
S	2/1/18	1330	X		P2-T59						1		007
S	2/1/18	1335	X		P2-T60						1		008
S			X		P2-T61						1		
S			X		P2-T62						1		

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush Next Day

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2-1-18	1500		2/2/18	1500
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) courier	Date:	Time:
	2/2/18	1740		2/3/18	1145
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Apt (Corp Rate)
nex day 2-6-18
COC Seal on Jar

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

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

February 09, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1802347

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/7/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T61
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:00:00 AM
Lab ID: 1802347-001 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	59	4.7		mg/Kg	1	2/7/2018 10:05:53 AM	R48971
Surr: BFB	152	70-130	S	%Rec	1	2/7/2018 10:05:53 AM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	2000	37		mg/Kg	4	2/8/2018 11:27:05 AM	36401
Motor Oil Range Organics (MRO)	220	180		mg/Kg	4	2/8/2018 11:27:05 AM	36401
Surr: DNOP	94.8	70-130		%Rec	4	2/8/2018 11:27:05 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	2/7/2018 10:05:53 AM	S48971
Toluene	ND	0.047		mg/Kg	1	2/7/2018 10:05:53 AM	S48971
Ethylbenzene	ND	0.047		mg/Kg	1	2/7/2018 10:05:53 AM	S48971
Xylenes, Total	0.10	0.095		mg/Kg	1	2/7/2018 10:05:53 AM	S48971
Surr: 4-Bromofluorobenzene	160	70-130	S	%Rec	1	2/7/2018 10:05:53 AM	S48971
Surr: Toluene-d8	117	70-130		%Rec	1	2/7/2018 10:05:53 AM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T62
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:05:00 AM
Lab ID: 1802347-002 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	2600	44		mg/Kg	10	2/7/2018 10:28:43 AM	R48971
Surr: BFB	103	70-130		%Rec	10	2/7/2018 10:28:43 AM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	130	9.3		mg/Kg	1	2/8/2018 9:37:31 AM	36401
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	2/8/2018 9:37:31 AM	36401
Surr: DNOP	102	70-130		%Rec	1	2/8/2018 9:37:31 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.86	0.22		mg/Kg	10	2/7/2018 10:28:43 AM	S48971
Toluene	16	0.44		mg/Kg	10	2/7/2018 10:28:43 AM	S48971
Ethylbenzene	4.1	0.44		mg/Kg	10	2/7/2018 10:28:43 AM	S48971
Xylenes, Total	44	0.88		mg/Kg	10	2/7/2018 10:28:43 AM	S48971
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	10	2/7/2018 10:28:43 AM	S48971
Surr: Toluene-d8	117	70-130		%Rec	10	2/7/2018 10:28:43 AM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T63
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:10:00 AM
Lab ID: 1802347-003 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	4900	410		mg/Kg	100	2/7/2018 1:09:27 PM	R48971
Surr: BFB	115	70-130		%Rec	100	2/7/2018 1:09:27 PM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	270	9.9		mg/Kg	1	2/8/2018 9:59:20 AM	36401
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	2/8/2018 9:59:20 AM	36401
Surr: DNOP	110	70-130		%Rec	1	2/8/2018 9:59:20 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.56	0.21		mg/Kg	10	2/7/2018 10:51:43 AM	S48971
Toluene	10	0.41		mg/Kg	10	2/7/2018 10:51:43 AM	S48971
Ethylbenzene	6.3	0.41		mg/Kg	10	2/7/2018 10:51:43 AM	S48971
Xylenes, Total	39	0.83		mg/Kg	10	2/7/2018 10:51:43 AM	S48971
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	10	2/7/2018 10:51:43 AM	S48971
Surr: Toluene-d8	119	70-130		%Rec	10	2/7/2018 10:51:43 AM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T64
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:15:00 AM
Lab ID: 1802347-004 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	1400	44		mg/Kg	10	2/7/2018 11:14:43 AM	R48971
Surr: BFB	114	70-130		%Rec	10	2/7/2018 11:14:43 AM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	50	9.8		mg/Kg	1	2/8/2018 10:21:19 AM	36401
Motor Oil Range Organics (MRO)	63	49		mg/Kg	1	2/8/2018 10:21:19 AM	36401
Surr: DNOP	105	70-130		%Rec	1	2/8/2018 10:21:19 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.22		mg/Kg	10	2/7/2018 11:14:43 AM	S48971
Toluene	3.0	0.44		mg/Kg	10	2/7/2018 11:14:43 AM	S48971
Ethylbenzene	1.9	0.44		mg/Kg	10	2/7/2018 11:14:43 AM	S48971
Xylenes, Total	19	0.89		mg/Kg	10	2/7/2018 11:14:43 AM	S48971
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	10	2/7/2018 11:14:43 AM	S48971
Surr: Toluene-d8	120	70-130		%Rec	10	2/7/2018 11:14:43 AM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T65
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:20:00 AM
Lab ID: 1802347-005 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg	1	2/7/2018 11:37:43 AM	R48971
Surr: BFB	122	70-130		%Rec	1	2/7/2018 11:37:43 AM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/8/2018 10:43:09 AM	36401
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2018 10:43:09 AM	36401
Surr: DNOP	102	70-130		%Rec	1	2/8/2018 10:43:09 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.029		mg/Kg	1	2/7/2018 11:37:43 AM	S48971
Toluene	ND	0.058		mg/Kg	1	2/7/2018 11:37:43 AM	S48971
Ethylbenzene	ND	0.058		mg/Kg	1	2/7/2018 11:37:43 AM	S48971
Xylenes, Total	ND	0.12		mg/Kg	1	2/7/2018 11:37:43 AM	S48971
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	2/7/2018 11:37:43 AM	S48971
Surr: Toluene-d8	114	70-130		%Rec	1	2/7/2018 11:37:43 AM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T66
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:25:00 AM
Lab ID: 1802347-006 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2018 12:00:37 PM	R48971
Surr: BFB	124	70-130		%Rec	1	2/7/2018 12:00:37 PM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/8/2018 11:05:08 AM	36401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/8/2018 11:05:08 AM	36401
Surr: DNOP	104	70-130		%Rec	1	2/8/2018 11:05:08 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	2/7/2018 12:00:37 PM	S48971
Toluene	ND	0.050		mg/Kg	1	2/7/2018 12:00:37 PM	S48971
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2018 12:00:37 PM	S48971
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2018 12:00:37 PM	S48971
Surr: 4-Bromofluorobenzene	130	70-130		%Rec	1	2/7/2018 12:00:37 PM	S48971
Surr: Toluene-d8	114	70-130		%Rec	1	2/7/2018 12:00:37 PM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T67
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:37:00 AM
Lab ID: 1802347-007 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	2/7/2018 12:23:38 PM	R48971
Surr: BFB	125	70-130		%Rec	1	2/7/2018 12:23:38 PM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/8/2018 10:48:59 AM	36401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/8/2018 10:48:59 AM	36401
Surr: DNOP	97.7	70-130		%Rec	1	2/8/2018 10:48:59 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.027		mg/Kg	1	2/7/2018 12:23:38 PM	S48971
Toluene	ND	0.053		mg/Kg	1	2/7/2018 12:23:38 PM	S48971
Ethylbenzene	ND	0.053		mg/Kg	1	2/7/2018 12:23:38 PM	S48971
Xylenes, Total	ND	0.11		mg/Kg	1	2/7/2018 12:23:38 PM	S48971
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	2/7/2018 12:23:38 PM	S48971
Surr: Toluene-d8	111	70-130		%Rec	1	2/7/2018 12:23:38 PM	S48971

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

Qualifiers:

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

Analytical Report
Lab Order **1802347**
Date Reported: **2/9/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T68
Project: Largo Compressor Station **Collection Date:** 2/6/2018 10:35:00 AM
Lab ID: 1802347-008 **Matrix:** SOIL **Received Date:** 2/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	2/7/2018 12:46:38 PM	R48971
Surr: BFB	121	70-130		%Rec	1	2/7/2018 12:46:38 PM	R48971
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/8/2018 11:13:17 AM	36401
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/8/2018 11:13:17 AM	36401
Surr: DNOP	94.9	70-130		%Rec	1	2/8/2018 11:13:17 AM	36401
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.027		mg/Kg	1	2/7/2018 12:46:38 PM	S48971
Toluene	ND	0.054		mg/Kg	1	2/7/2018 12:46:38 PM	S48971
Ethylbenzene	ND	0.054		mg/Kg	1	2/7/2018 12:46:38 PM	S48971
Xylenes, Total	ND	0.11		mg/Kg	1	2/7/2018 12:46:38 PM	S48971
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	2/7/2018 12:46:38 PM	S48971
Surr: Toluene-d8	113	70-130		%Rec	1	2/7/2018 12:46:38 PM	S48971

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802347**
09-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **LCS-36401**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **36401**	RunNo: **48975**
Prep Date: **2/7/2018**	Analysis Date: **2/8/2018**	SeqNo: **1576372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.4		5.000		88.3	70	130			

Sample ID **MB-36401**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **36401**	RunNo: **48975**
Prep Date: **2/7/2018**	Analysis Date: **2/8/2018**	SeqNo: **1576373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.3	70	130			

Sample ID **LCS-36418**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **36418**	RunNo: **48976**
Prep Date: **2/8/2018**	Analysis Date: **2/8/2018**	SeqNo: **1576376** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.0	70	130			

Sample ID **MB-36418**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **36418**	RunNo: **48976**
Prep Date: **2/8/2018**	Analysis Date: **2/8/2018**	SeqNo: **1576377** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802347**
09-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **S48971**	RunNo: **48971**
Prep Date:	Analysis Date: **2/7/2018**	SeqNo: **1576250** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.2	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.56		0.5000		113	70	130			

Sample ID **1802347-002ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **P2-T62**	Batch ID: **S48971**	RunNo: **48971**
Prep Date:	Analysis Date: **2/7/2018**	SeqNo: **1576253** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	9.3	0.22	8.834	0.8553	95.9	80	120			
Toluene	24	0.44	8.834	15.55	99.2	80	120			
Ethylbenzene	13	0.44	8.834	4.138	101	80	120			
Xylenes, Total	69	0.88	26.50	43.62	95.3	80	120			
Surr: 4-Bromofluorobenzene	4.7		4.417		105	70	130			
Surr: Toluene-d8	5.7		4.417		128	70	130			

Sample ID **1802347-002amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **P2-T62**	Batch ID: **S48971**	RunNo: **48971**
Prep Date:	Analysis Date: **2/7/2018**	SeqNo: **1576254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	8.2	0.22	8.834	0.8553	83.7	80	120	12.3	0	
Toluene	23	0.44	8.834	15.55	86.0	80	120	4.89	0	
Ethylbenzene	13	0.44	8.834	4.138	96.1	80	120	3.18	0	
Xylenes, Total	66	0.88	26.50	43.62	86.2	80	120	3.59	0	
Surr: 4-Bromofluorobenzene	4.8		4.417		109	70	130	0	0	
Surr: Toluene-d8	5.2		4.417		117	70	130	0	0	

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **S48971**	RunNo: **48971**
Prep Date:	Analysis Date: **2/7/2018**	SeqNo: **1576261** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802347**
09-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **S48971**	RunNo: **48971**
Prep Date:	Analysis Date: **2/7/2018**	SeqNo: **1576261** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.59		0.5000		119	70	130			
Surr: Toluene-d8	0.59		0.5000		119	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802347**
09-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**2.5ug gro lcs**	SampType:	**LCS**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**R48971**	RunNo:	**48971**					
Prep Date:		Analysis Date:	**2/7/2018**	SeqNo:	**1576242**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	70	130			
Surr: BFB	510		500.0		102	70	130			

Sample ID	**rb**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D Mod: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**R48971**	RunNo:	**48971**					
Prep Date:		Analysis Date:	**2/7/2018**	SeqNo:	**1576243**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		113	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1802347 RcptNo: 1

Received By: Anne Thorne 2/7/2018 7:00:00 AM
Completed By: Anne Thorne 2/7/2018 8:12:46 AM
Reviewed By: 2/7/18

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

16. Additional remarks:

CUSTODAY SEALS INTACT ON SOIL JARS AND COOLER/at 2/7/18

17. Cooler Information

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

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 1 of 1

Sampler's Name: Chad D'Aponte

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021 | TPH GRO/DRO/MRO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O			Lab Sample ID (Lab Use Only)
S	2/6/18	1000	X		P2-T61	0	16				1		X	X	1802347-001
S	2/6/18	1005	X		P2-T62	0	16				1		X	X	-002
S	2/6/18	1010	X		P2-T63	0	16				1		X	X	-003
S	2/6/18	1015	X		P2-T64	0	16				1		X	X	-004
S	2/6/18	1020	X		P2-T65	0	16				1		X	X	-005
S	2/6/18	1025	X		P2-T66	0	16				1		X	X	-006
S	2/6/18	1030	X		P2-T67	0	16				1		X	X	-007
S	2/6/18	1035	X		P2-T68	0	16				1		X	X	-008

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush (NO)

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2/6/18	1540		2-6-18	1540
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	2/6/18	1834		02/07/18	0700
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES: Bill to Apex Corp Rate

Next Day 2-8-18 COC seal on Jars

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

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

February 20, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1802927

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/16/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1802927**
Date Reported: **2/20/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T69
Project: Largo Compressor Station **Collection Date:** 2/15/2018 10:00:00 AM
Lab ID: 1802927-001 **Matrix:** SOIL **Received Date:** 2/16/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2018 12:35:26 PM	36573
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2018 12:35:26 PM	36573
Surr: DNOP	101	70-130		%Rec	1	2/19/2018 12:35:26 PM	36573
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2018 9:46:27 AM	36571
Surr: BFB	85.2	15-316		%Rec	1	2/19/2018 9:46:27 AM	36571
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/19/2018 9:46:27 AM	36571
Toluene	ND	0.049		mg/Kg	1	2/19/2018 9:46:27 AM	36571
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2018 9:46:27 AM	36571
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2018 9:46:27 AM	36571
Surr: 4-Bromofluorobenzene	85.5	80-120		%Rec	1	2/19/2018 9:46:27 AM	36571

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

Qualifiers:

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

Analytical Report
Lab Order **1802927**
Date Reported: **2/20/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T70
Project: Largo Compressor Station **Collection Date:** 2/15/2018 10:05:00 AM
Lab ID: 1802927-002 **Matrix:** SOIL **Received Date:** 2/16/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/19/2018 12:57:51 PM	36573
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2018 12:57:51 PM	36573
Surr: DNOP	102	70-130		%Rec	1	2/19/2018 12:57:51 PM	36573
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2018 10:56:58 AM	36571
Surr: BFB	82.5	15-316		%Rec	1	2/19/2018 10:56:58 AM	36571
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/19/2018 10:56:58 AM	36571
Toluene	ND	0.050		mg/Kg	1	2/19/2018 10:56:58 AM	36571
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2018 10:56:58 AM	36571
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2018 10:56:58 AM	36571
Surr: 4-Bromofluorobenzene	84.7	80-120		%Rec	1	2/19/2018 10:56:58 AM	36571

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

Qualifiers:

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

Analytical Report
Lab Order **1802927**
Date Reported: **2/20/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T71
Project: Largo Compressor Station **Collection Date:** 2/15/2018 10:10:00 AM
Lab ID: 1802927-003 **Matrix:** SOIL **Received Date:** 2/16/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/19/2018 1:19:54 PM	36573
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/19/2018 1:19:54 PM	36573
Surr: DNOP	104	70-130		%Rec	1	2/19/2018 1:19:54 PM	36573
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2018 12:07:09 PM	36571
Surr: BFB	84.5	15-316		%Rec	1	2/19/2018 12:07:09 PM	36571
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/19/2018 12:07:09 PM	36571
Toluene	ND	0.048		mg/Kg	1	2/19/2018 12:07:09 PM	36571
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2018 12:07:09 PM	36571
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2018 12:07:09 PM	36571
Surr: 4-Bromofluorobenzene	86.5	80-120		%Rec	1	2/19/2018 12:07:09 PM	36571

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

Qualifiers:

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

Analytical Report
Lab Order **1802927**
Date Reported: **2/20/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T72
Project: Largo Compressor Station **Collection Date:** 2/15/2018 10:15:00 AM
Lab ID: 1802927-004 **Matrix:** SOIL **Received Date:** 2/16/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/19/2018 1:42:11 PM	36573
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2018 1:42:11 PM	36573
Surr: DNOP	106	70-130		%Rec	1	2/19/2018 1:42:11 PM	36573
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2018 12:30:41 PM	36571
Surr: BFB	87.2	15-316		%Rec	1	2/19/2018 12:30:41 PM	36571
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/19/2018 12:30:41 PM	36571
Toluene	ND	0.048		mg/Kg	1	2/19/2018 12:30:41 PM	36571
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2018 12:30:41 PM	36571
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2018 12:30:41 PM	36571
Surr: 4-Bromofluorobenzene	85.7	80-120		%Rec	1	2/19/2018 12:30:41 PM	36571

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

Qualifiers:

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

Analytical Report
Lab Order **1802927**
Date Reported: **2/20/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T73
Project: Largo Compressor Station **Collection Date:** 2/15/2018 10:20:00 AM
Lab ID: 1802927-005 **Matrix:** SOIL **Received Date:** 2/16/2018 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/19/2018 2:04:32 PM	36573
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/19/2018 2:04:32 PM	36573
Surr: DNOP	94.3	70-130		%Rec	1	2/19/2018 2:04:32 PM	36573
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2018 12:54:10 PM	36571
Surr: BFB	87.6	15-316		%Rec	1	2/19/2018 12:54:10 PM	36571
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	2/19/2018 12:54:10 PM	36571
Toluene	ND	0.049		mg/Kg	1	2/19/2018 12:54:10 PM	36571
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2018 12:54:10 PM	36571
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2018 12:54:10 PM	36571
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	2/19/2018 12:54:10 PM	36571

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802927**
20-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-36573**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**36573**		RunNo:	**49209**				
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**		SeqNo:	**1587557**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	70	130			
Surr: DNOP	4.2		5.000		83.0	70	130			

Sample ID	**MB-36573**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**36573**		RunNo:	**49209**				
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**		SeqNo:	**1587558**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802927**
20-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-36571**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**36571**	RunNo:	**49215**					
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**	SeqNo:	**1587995**	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	870		1000		86.6	15	316			

Sample ID	**LCS-36571**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**36571**	RunNo:	**49215**					
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**	SeqNo:	**1587996**	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	115	75.9	131			
Surr: BFB	960		1000		95.5	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1802927**
20-Feb-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**MB-36571**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**36571**	RunNo:	**49215**					
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**	SeqNo:	**1588022**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	80	120			

Sample ID	**LCS-36571**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**36571**	RunNo:	**49215**					
Prep Date:	**2/16/2018**	Analysis Date:	**2/19/2018**	SeqNo:	**1588023**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	77.3	128			
Toluene	1.0	0.050	1.000	0	103	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	103	81.6	129			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.4	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1802927 RcptNo: 1

Received By: Anne Thorne 2/16/2018 7:15:00 AM Anne Thorne
Completed By: Anne Thorne 2/16/2018 7:34:04 AM Anne Thorne
Reviewed By: PDS 2/16/18
Labeled By: SRE 02/16/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
    # of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted? ____
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by: ____

Special Handling (if applicable)

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

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

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 2/16/18

17. Cooler Information

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

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande Suite A
Aztec NM 87410
Project Manager K. Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A. Freeman
Phone: 505-345-3975
PO/SO #: 725040112 154

Sampler's Name: Chad D'Agenti
Sampler's Signature:

Proj. No.: 725040112 154
Project Name: Large Compressor Station

ANALYSIS REQUESTED: BTEX 8021, TPH GRO/DRO/MRO 418.1

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 L.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	2/15/18	1000	X		P2-T69	2	16				1		1802927-001
S	2/15/18	1005	X		P2-T70	4	15				1		002
S	2/15/18	1010	X		P2-T71	4	15				1		003
S	2/15/18	1015	X		P2-T72	2	10				1		004
S	2/15/18	1020	X		P2-T73	2	18				1		005

MES
(2)

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush See Note

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/15/18	1500		2/15/18	1500
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/15/18	1824		2/16/18	0715
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time

NOTES:
Bill to Apex (Cost Rate)

Tuesday 2-20-18

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 07, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1803146

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T74
Project: Largo CS **Collection Date:** 3/2/2018 10:00:00 AM
Lab ID: 1803146-001 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/6/2018 2:55:51 PM	36842
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/6/2018 2:55:51 PM	36842
Surr: DNOP	88.6	70-130		%Rec	1	3/6/2018 2:55:51 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2018 12:47:30 PM	36834
Surr: BFB	98.8	15-316		%Rec	1	3/6/2018 12:47:30 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/6/2018 12:47:30 PM	36834
Toluene	ND	0.049		mg/Kg	1	3/6/2018 12:47:30 PM	36834
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2018 12:47:30 PM	36834
Xylenes, Total	ND	0.098		mg/Kg	1	3/6/2018 12:47:30 PM	36834
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	3/6/2018 12:47:30 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T75
Project: Largo CS **Collection Date:** 3/2/2018 10:05:00 AM
Lab ID: 1803146-002 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/6/2018 3:20:15 PM	36842
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/6/2018 3:20:15 PM	36842
Surr: DNOP	91.5	70-130		%Rec	1	3/6/2018 3:20:15 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/6/2018 1:10:53 PM	36834
Surr: BFB	89.9	15-316		%Rec	1	3/6/2018 1:10:53 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/6/2018 1:10:53 PM	36834
Toluene	ND	0.050		mg/Kg	1	3/6/2018 1:10:53 PM	36834
Ethylbenzene	ND	0.050		mg/Kg	1	3/6/2018 1:10:53 PM	36834
Xylenes, Total	ND	0.099		mg/Kg	1	3/6/2018 1:10:53 PM	36834
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	3/6/2018 1:10:53 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T76
Project: Largo CS **Collection Date:** 3/2/2018 10:10:00 AM
Lab ID: 1803146-003 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/6/2018 3:44:53 PM	36842
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/6/2018 3:44:53 PM	36842
Surr: DNOP	86.6	70-130		%Rec	1	3/6/2018 3:44:53 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/6/2018 1:34:23 PM	36834
Surr: BFB	90.2	15-316		%Rec	1	3/6/2018 1:34:23 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/6/2018 1:34:23 PM	36834
Toluene	ND	0.050		mg/Kg	1	3/6/2018 1:34:23 PM	36834
Ethylbenzene	ND	0.050		mg/Kg	1	3/6/2018 1:34:23 PM	36834
Xylenes, Total	ND	0.099		mg/Kg	1	3/6/2018 1:34:23 PM	36834
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	3/6/2018 1:34:23 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T77
Project: Largo CS **Collection Date:** 3/2/2018 10:15:00 AM
Lab ID: 1803146-004 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/6/2018 4:09:21 PM	36842
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/6/2018 4:09:21 PM	36842
Surr: DNOP	89.8	70-130		%Rec	1	3/6/2018 4:09:21 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2018 1:57:46 PM	36834
Surr: BFB	88.1	15-316		%Rec	1	3/6/2018 1:57:46 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/6/2018 1:57:46 PM	36834
Toluene	ND	0.049		mg/Kg	1	3/6/2018 1:57:46 PM	36834
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2018 1:57:46 PM	36834
Xylenes, Total	ND	0.097		mg/Kg	1	3/6/2018 1:57:46 PM	36834
Surr: 4-Bromofluorobenzene	86.6	80-120		%Rec	1	3/6/2018 1:57:46 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T78
Project: Largo CS **Collection Date:** 3/2/2018 10:20:00 AM
Lab ID: 1803146-005 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/6/2018 4:33:49 PM	36842
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/6/2018 4:33:49 PM	36842
Surr: DNOP	94.6	70-130		%Rec	1	3/6/2018 4:33:49 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/6/2018 2:21:11 PM	36834
Surr: BFB	90.5	15-316		%Rec	1	3/6/2018 2:21:11 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	3/6/2018 2:21:11 PM	36834
Toluene	ND	0.046		mg/Kg	1	3/6/2018 2:21:11 PM	36834
Ethylbenzene	ND	0.046		mg/Kg	1	3/6/2018 2:21:11 PM	36834
Xylenes, Total	ND	0.093		mg/Kg	1	3/6/2018 2:21:11 PM	36834
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	1	3/6/2018 2:21:11 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T79
Project: Largo CS **Collection Date:** 3/2/2018 10:25:00 AM
Lab ID: 1803146-006 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/6/2018 4:58:14 PM	36842
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/6/2018 4:58:14 PM	36842
Surr: DNOP	91.7	70-130		%Rec	1	3/6/2018 4:58:14 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/6/2018 2:44:39 PM	36834
Surr: BFB	91.0	15-316		%Rec	1	3/6/2018 2:44:39 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/6/2018 2:44:39 PM	36834
Toluene	ND	0.047		mg/Kg	1	3/6/2018 2:44:39 PM	36834
Ethylbenzene	ND	0.047		mg/Kg	1	3/6/2018 2:44:39 PM	36834
Xylenes, Total	ND	0.095		mg/Kg	1	3/6/2018 2:44:39 PM	36834
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	3/6/2018 2:44:39 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T80
Project: Largo CS **Collection Date:** 3/2/2018 10:30:00 AM
Lab ID: 1803146-007 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/6/2018 5:22:42 PM	36842
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/6/2018 5:22:42 PM	36842
Surr: DNOP	95.6	70-130		%Rec	1	3/6/2018 5:22:42 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/6/2018 3:08:05 PM	36834
Surr: BFB	90.8	15-316		%Rec	1	3/6/2018 3:08:05 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/6/2018 3:08:05 PM	36834
Toluene	ND	0.049		mg/Kg	1	3/6/2018 3:08:05 PM	36834
Ethylbenzene	ND	0.049		mg/Kg	1	3/6/2018 3:08:05 PM	36834
Xylenes, Total	ND	0.098		mg/Kg	1	3/6/2018 3:08:05 PM	36834
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	3/6/2018 3:08:05 PM	36834

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

Qualifiers:

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

Analytical Report
Lab Order **1803146**
Date Reported: **3/7/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T81
Project: Largo CS **Collection Date:** 3/2/2018 10:35:00 AM
Lab ID: 1803146-008 **Matrix:** SOIL **Received Date:** 3/3/2018 10:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/6/2018 5:47:04 PM	36842
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/6/2018 5:47:04 PM	36842
Surr: DNOP	97.3	70-130		%Rec	1	3/6/2018 5:47:04 PM	36842
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/6/2018 5:05:16 PM	36834
Surr: BFB	91.4	15-316		%Rec	1	3/6/2018 5:05:16 PM	36834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/6/2018 5:05:16 PM	36834
Toluene	ND	0.050		mg/Kg	1	3/6/2018 5:05:16 PM	36834
Ethylbenzene	ND	0.050		mg/Kg	1	3/6/2018 5:05:16 PM	36834
Xylenes, Total	ND	0.10		mg/Kg	1	3/6/2018 5:05:16 PM	36834
Surr: 4-Bromofluorobenzene	90.3	80-120		%Rec	1	3/6/2018 5:05:16 PM	36834

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803146**
07-Mar-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**LCS-36842**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**36842**	RunNo:	**49575**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1602834**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	70	130			
Surr: DNOP	4.1		5.000		83.0	70	130			

Sample ID	**MB-36842**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**36842**	RunNo:	**49575**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1602835**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803146**
07-Mar-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-36834**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**36834**	RunNo:	**49592**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1603080**	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	990		1000		98.9	15	316			

Sample ID	**LCS-36834**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**36834**	RunNo:	**49592**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1603082**	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	75.9	131			
Surr: BFB	1200		1000		115	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803146**
07-Mar-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-36834**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**36834**	RunNo:	**49592**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1603107**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			

Sample ID	**LCS-36834**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**36834**	RunNo:	**49592**					
Prep Date:	**3/5/2018**	Analysis Date:	**3/6/2018**	SeqNo:	**1603108**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	77.3	128			
Toluene	1.0	0.050	1.000	0	102	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	100	80.7	127			
Xylenes, Total	3.1	0.10	3.000	0	104	81.6	129			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1803146 RcptNo: 1

Received By: **Anne Thorne** 3/3/2018 10:40:00 AM Anne Thorne

Completed By: **Anne Thorne** 3/5/2018 8:47:15 AM Anne Thorne

Reviewed By: AG 03/05/18 Reviewed By DDS

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 3/5/18

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande Suit A
Aztec NM 87410
Project Manager B. Summers

Laboratory: Hall Environmental
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A. Freeman
Phone: 505-345-3975
PO/SO #: 725040113154

Lab use only
Due Date:

Temp. of coolers when received (C°): 2.3

1 2 3 4 5

Page 1 of 1

Sampler's Name: Chad D'Agandi
Sampler's Signature:

Proj. No.: 725040113154
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO 8015

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	3/1/18	1000	X		P2-T74	5	18				1		1803146-001
S	3/1/18	1005	X		P2-T75	5	18				1		002
S	3/1/18	1010	X		P2-T76	5	18				1		003
S	3/1/18	1015	X		P2-T77	5	18				1		004
S	3/1/18	1020	X		P2-T78	5	18				1		005
S	3/1/18	1025	X		P2-T79	5	18				1		006
S	3/1/18	1030	X		P2-T80	5	18				1		007
S	3/1/18	1035	X		P2-T81	2	18				1		008

Turn around time ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	3-2-18	1500		3/2/18	1500
	3/2/18	1600		3/2/18	1640
	Date:	Time:		Date:	Time:
	Date:	Time:		Date:	Time:

NOTES:
Bill to Apex (Corp Rate)
Due 3-7-18

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

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

March 23, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1803B43

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 19 sample(s) on 3/21/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T82
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:00:00 AM
Lab ID: 1803B43-001 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/22/2018 9:14:35 AM	37159
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2018 9:14:35 AM	37159
Surr: DNOP	73.3	70-130		%Rec	1	3/22/2018 9:14:35 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/21/2018 3:00:21 PM	37123
Surr: BFB	88.4	15-316		%Rec	1	3/21/2018 3:00:21 PM	37123
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	3/21/2018 3:00:21 PM	37123
Toluene	ND	0.039		mg/Kg	1	3/21/2018 3:00:21 PM	37123
Ethylbenzene	ND	0.039		mg/Kg	1	3/21/2018 3:00:21 PM	37123
Xylenes, Total	ND	0.078		mg/Kg	1	3/21/2018 3:00:21 PM	37123
Surr: 4-Bromofluorobenzene	82.2	80-120		%Rec	1	3/21/2018 3:00:21 PM	37123

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T83
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:05:00 AM
Lab ID: 1803B43-002 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	74	10		mg/Kg	1	3/22/2018 9:36:29 AM	37159
Motor Oil Range Organics (MRO)	450	50		mg/Kg	1	3/22/2018 9:36:29 AM	37159
Surr: DNOP	98.9	70-130		%Rec	1	3/22/2018 9:36:29 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	3/22/2018 9:56:10 AM	G49994
Surr: BFB	90.4	15-316		%Rec	1	3/22/2018 9:56:10 AM	G49994
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	3/22/2018 9:56:10 AM	B49994
Toluene	ND	0.041		mg/Kg	1	3/22/2018 9:56:10 AM	B49994
Ethylbenzene	ND	0.041		mg/Kg	1	3/22/2018 9:56:10 AM	B49994
Xylenes, Total	ND	0.081		mg/Kg	1	3/22/2018 9:56:10 AM	B49994
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	3/22/2018 9:56:10 AM	B49994

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T84
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:10:00 AM
Lab ID: 1803B43-003 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/22/2018 9:58:29 AM	37159
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2018 9:58:29 AM	37159
Surr: DNOP	92.0	70-130		%Rec	1	3/22/2018 9:58:29 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	3/21/2018 6:29:39 PM	G49962
Surr: BFB	90.4	15-316		%Rec	1	3/21/2018 6:29:39 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/21/2018 6:29:39 PM	B49962
Toluene	ND	0.042		mg/Kg	1	3/21/2018 6:29:39 PM	B49962
Ethylbenzene	ND	0.042		mg/Kg	1	3/21/2018 6:29:39 PM	B49962
Xylenes, Total	ND	0.084		mg/Kg	1	3/21/2018 6:29:39 PM	B49962
Surr: 4-Bromofluorobenzene	85.9	80-120		%Rec	1	3/21/2018 6:29:39 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T85
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:15:00 AM
Lab ID: 1803B43-004 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2018 10:20:40 AM	37159
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2018 10:20:40 AM	37159
Surr: DNOP	90.3	70-130		%Rec	1	3/22/2018 10:20:40 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/21/2018 6:52:48 PM	G49962
Surr: BFB	90.1	15-316		%Rec	1	3/21/2018 6:52:48 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/21/2018 6:52:48 PM	B49962
Toluene	ND	0.044		mg/Kg	1	3/21/2018 6:52:48 PM	B49962
Ethylbenzene	ND	0.044		mg/Kg	1	3/21/2018 6:52:48 PM	B49962
Xylenes, Total	ND	0.089		mg/Kg	1	3/21/2018 6:52:48 PM	B49962
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	3/21/2018 6:52:48 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T86
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:20:00 AM
Lab ID: 1803B43-005 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2018 10:43:03 AM	37159
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/22/2018 10:43:03 AM	37159
Surr: DNOP	91.8	70-130		%Rec	1	3/22/2018 10:43:03 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/21/2018 7:15:54 PM	G49962
Surr: BFB	87.4	15-316		%Rec	1	3/21/2018 7:15:54 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/21/2018 7:15:54 PM	B49962
Toluene	ND	0.043		mg/Kg	1	3/21/2018 7:15:54 PM	B49962
Ethylbenzene	ND	0.043		mg/Kg	1	3/21/2018 7:15:54 PM	B49962
Xylenes, Total	ND	0.087		mg/Kg	1	3/21/2018 7:15:54 PM	B49962
Surr: 4-Bromofluorobenzene	83.1	80-120		%Rec	1	3/21/2018 7:15:54 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T87
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:25:00 AM
Lab ID: 1803B43-006 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	63	10		mg/Kg	1	3/22/2018 11:05:07 AM	37159
Motor Oil Range Organics (MRO)	760	50		mg/Kg	1	3/22/2018 11:05:07 AM	37159
Surr: DNOP	109	70-130		%Rec	1	3/22/2018 11:05:07 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	7.5	4.3		mg/Kg	1	3/21/2018 7:39:02 PM	G49962
Surr: BFB	92.0	15-316		%Rec	1	3/21/2018 7:39:02 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/21/2018 7:39:02 PM	B49962
Toluene	ND	0.043		mg/Kg	1	3/21/2018 7:39:02 PM	B49962
Ethylbenzene	ND	0.043		mg/Kg	1	3/21/2018 7:39:02 PM	B49962
Xylenes, Total	ND	0.087		mg/Kg	1	3/21/2018 7:39:02 PM	B49962
Surr: 4-Bromofluorobenzene	84.0	80-120		%Rec	1	3/21/2018 7:39:02 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T88
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:30:00 AM
Lab ID: 1803B43-007 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	33	10		mg/Kg	1	3/22/2018 2:23:48 PM	37159
Motor Oil Range Organics (MRO)	490	51		mg/Kg	1	3/22/2018 2:23:48 PM	37159
Surr: DNOP	97.9	70-130		%Rec	1	3/22/2018 2:23:48 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	3/21/2018 8:25:20 PM	G49962
Surr: BFB	84.0	15-316		%Rec	1	3/21/2018 8:25:20 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/21/2018 8:25:20 PM	B49962
Toluene	ND	0.038		mg/Kg	1	3/21/2018 8:25:20 PM	B49962
Ethylbenzene	ND	0.038		mg/Kg	1	3/21/2018 8:25:20 PM	B49962
Xylenes, Total	ND	0.075		mg/Kg	1	3/21/2018 8:25:20 PM	B49962
Surr: 4-Bromofluorobenzene	79.5	80-120	S	%Rec	1	3/21/2018 8:25:20 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T89
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:35:00 AM
Lab ID: 1803B43-008 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/22/2018 12:33:40 PM	37159
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2018 12:33:40 PM	37159
Surr: DNOP	93.3	70-130		%Rec	1	3/22/2018 12:33:40 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	3/21/2018 8:48:28 PM	G49962
Surr: BFB	87.2	15-316		%Rec	1	3/21/2018 8:48:28 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	3/21/2018 8:48:28 PM	B49962
Toluene	ND	0.040		mg/Kg	1	3/21/2018 8:48:28 PM	B49962
Ethylbenzene	ND	0.040		mg/Kg	1	3/21/2018 8:48:28 PM	B49962
Xylenes, Total	ND	0.081		mg/Kg	1	3/21/2018 8:48:28 PM	B49962
Surr: 4-Bromofluorobenzene	81.8	80-120		%Rec	1	3/21/2018 8:48:28 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T90
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:40:00 AM
Lab ID: 1803B43-009 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2018 12:55:48 PM	37159
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2018 12:55:48 PM	37159
Surr: DNOP	86.6	70-130		%Rec	1	3/22/2018 12:55:48 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/21/2018 9:11:35 PM	G49962
Surr: BFB	84.8	15-316		%Rec	1	3/21/2018 9:11:35 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/21/2018 9:11:35 PM	B49962
Toluene	ND	0.043		mg/Kg	1	3/21/2018 9:11:35 PM	B49962
Ethylbenzene	ND	0.043		mg/Kg	1	3/21/2018 9:11:35 PM	B49962
Xylenes, Total	ND	0.085		mg/Kg	1	3/21/2018 9:11:35 PM	B49962
Surr: 4-Bromofluorobenzene	80.8	80-120		%Rec	1	3/21/2018 9:11:35 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T91
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:45:00 AM
Lab ID: 1803B43-010 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2018 1:17:42 PM	37159
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2018 1:17:42 PM	37159
Surr: DNOP	99.5	70-130		%Rec	1	3/22/2018 1:17:42 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2018 9:34:42 PM	G49962
Surr: BFB	91.6	15-316		%Rec	1	3/21/2018 9:34:42 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	3/21/2018 9:34:42 PM	B49962
Toluene	ND	0.047		mg/Kg	1	3/21/2018 9:34:42 PM	B49962
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2018 9:34:42 PM	B49962
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2018 9:34:42 PM	B49962
Surr: 4-Bromofluorobenzene	84.2	80-120		%Rec	1	3/21/2018 9:34:42 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T93
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:55:00 AM
Lab ID: 1803B43-011 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	19	8.7		mg/Kg	1	3/22/2018 1:39:48 PM	37159
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/22/2018 1:39:48 PM	37159
Surr: DNOP	95.4	70-130		%Rec	1	3/22/2018 1:39:48 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1400	94		mg/Kg	20	3/21/2018 9:57:56 PM	G49962
Surr: BFB	344	15-316	S	%Rec	20	3/21/2018 9:57:56 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.99	0.47		mg/Kg	20	3/21/2018 9:57:56 PM	B49962
Toluene	ND	0.94		mg/Kg	20	3/21/2018 9:57:56 PM	B49962
Ethylbenzene	3.9	0.94		mg/Kg	20	3/21/2018 9:57:56 PM	B49962
Xylenes, Total	17	1.9		mg/Kg	20	3/21/2018 9:57:56 PM	B49962
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	20	3/21/2018 9:57:56 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T94
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:00:00 AM
Lab ID: 1803B43-012 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2018 2:01:43 PM	37159
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2018 2:01:43 PM	37159
Surr: DNOP	100	70-130		%Rec	1	3/22/2018 2:01:43 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	120	19		mg/Kg	5	3/21/2018 10:21:04 PM	G49962
Surr: BFB	195	15-316		%Rec	5	3/21/2018 10:21:04 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.35	0.097		mg/Kg	5	3/21/2018 10:21:04 PM	B49962
Toluene	ND	0.19		mg/Kg	5	3/21/2018 10:21:04 PM	B49962
Ethylbenzene	0.36	0.19		mg/Kg	5	3/21/2018 10:21:04 PM	B49962
Xylenes, Total	1.6	0.39		mg/Kg	5	3/21/2018 10:21:04 PM	B49962
Surr: 4-Bromofluorobenzene	89.4	80-120		%Rec	5	3/21/2018 10:21:04 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T95
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:05:00 AM
Lab ID: 1803B43-013 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/22/2018 1:22:15 PM	37159
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2018 1:22:15 PM	37159
Surr: DNOP	104	70-130		%Rec	1	3/22/2018 1:22:15 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/21/2018 11:54:01 PM	G49962
Surr: BFB	90.1	15-316		%Rec	1	3/21/2018 11:54:01 PM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/21/2018 11:54:01 PM	B49962
Toluene	ND	0.039		mg/Kg	1	3/21/2018 11:54:01 PM	B49962
Ethylbenzene	ND	0.039		mg/Kg	1	3/21/2018 11:54:01 PM	B49962
Xylenes, Total	ND	0.077		mg/Kg	1	3/21/2018 11:54:01 PM	B49962
Surr: 4-Bromofluorobenzene	85.5	80-120		%Rec	1	3/21/2018 11:54:01 PM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T96
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:15:00 AM
Lab ID: 1803B43-014 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2018 12:57:50 PM	37159
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2018 12:57:50 PM	37159
Surr: DNOP	109	70-130		%Rec	1	3/22/2018 12:57:50 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	3/22/2018 12:17:20 AM	G49962
Surr: BFB	89.4	15-316		%Rec	1	3/22/2018 12:17:20 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/22/2018 12:17:20 AM	B49962
Toluene	ND	0.042		mg/Kg	1	3/22/2018 12:17:20 AM	B49962
Ethylbenzene	ND	0.042		mg/Kg	1	3/22/2018 12:17:20 AM	B49962
Xylenes, Total	ND	0.083		mg/Kg	1	3/22/2018 12:17:20 AM	B49962
Surr: 4-Bromofluorobenzene	85.0	80-120		%Rec	1	3/22/2018 12:17:20 AM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T97
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:20:00 AM
Lab ID: 1803B43-015 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/22/2018 12:33:15 PM	37159
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/22/2018 12:33:15 PM	37159
Surr: DNOP	109	70-130		%Rec	1	3/22/2018 12:33:15 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	3/22/2018 12:40:27 AM	G49962
Surr: BFB	88.2	15-316		%Rec	1	3/22/2018 12:40:27 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	3/22/2018 12:40:27 AM	B49962
Toluene	ND	0.038		mg/Kg	1	3/22/2018 12:40:27 AM	B49962
Ethylbenzene	ND	0.038		mg/Kg	1	3/22/2018 12:40:27 AM	B49962
Xylenes, Total	ND	0.075		mg/Kg	1	3/22/2018 12:40:27 AM	B49962
Surr: 4-Bromofluorobenzene	84.2	80-120		%Rec	1	3/22/2018 12:40:27 AM	B49962

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

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T98
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:25:00 AM
Lab ID: 1803B43-016 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/22/2018 12:08:46 PM	37159
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/22/2018 12:08:46 PM	37159
Surr: DNOP	110	70-130		%Rec	1	3/22/2018 12:08:46 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/22/2018 1:03:51 AM	G49962
Surr: BFB	89.3	15-316		%Rec	1	3/22/2018 1:03:51 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/22/2018 1:03:51 AM	B49962
Toluene	ND	0.044		mg/Kg	1	3/22/2018 1:03:51 AM	B49962
Ethylbenzene	ND	0.044		mg/Kg	1	3/22/2018 1:03:51 AM	B49962
Xylenes, Total	ND	0.089		mg/Kg	1	3/22/2018 1:03:51 AM	B49962
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	3/22/2018 1:03:51 AM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T99
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:30:00 AM
Lab ID: 1803B43-017 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	9300	100		mg/Kg	10	3/22/2018 1:47:04 PM	37159
Motor Oil Range Organics (MRO)	790	500		mg/Kg	10	3/22/2018 1:47:04 PM	37159
Surr: DNOP	0	70-130	S	%Rec	10	3/22/2018 1:47:04 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	13	4.9		mg/Kg	1	3/22/2018 1:27:10 AM	G49962
Surr: BFB	221	15-316		%Rec	1	3/22/2018 1:27:10 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/22/2018 1:27:10 AM	B49962
Toluene	ND	0.049		mg/Kg	1	3/22/2018 1:27:10 AM	B49962
Ethylbenzene	0.064	0.049		mg/Kg	1	3/22/2018 1:27:10 AM	B49962
Xylenes, Total	0.14	0.099		mg/Kg	1	3/22/2018 1:27:10 AM	B49962
Surr: 4-Bromofluorobenzene	87.0	80-120		%Rec	1	3/22/2018 1:27:10 AM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T92
Project: Largo Compressor Station **Collection Date:** 3/20/2018 10:50:00 AM
Lab ID: 1803B43-018 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	47	10		mg/Kg	1	3/22/2018 11:19:39 AM	37159
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2018 11:19:39 AM	37159
Surr: DNOP	111	70-130		%Rec	1	3/22/2018 11:19:39 AM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	650	76		mg/Kg	20	3/22/2018 1:50:33 AM	G49962
Surr: BFB	212	15-316		%Rec	20	3/22/2018 1:50:33 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.65	0.38		mg/Kg	20	3/22/2018 1:50:33 AM	B49962
Toluene	3.2	0.76		mg/Kg	20	3/22/2018 1:50:33 AM	B49962
Ethylbenzene	2.1	0.76		mg/Kg	20	3/22/2018 1:50:33 AM	B49962
Xylenes, Total	13	1.5		mg/Kg	20	3/22/2018 1:50:33 AM	B49962
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	20	3/22/2018 1:50:33 AM	B49962

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

Qualifiers:

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

Analytical Report
Lab Order **1803B43**
Date Reported: **3/23/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T100
Project: Largo Compressor Station **Collection Date:** 3/20/2018 11:35:00 AM
Lab ID: 1803B43-019 **Matrix:** SOIL **Received Date:** 3/21/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	1100	19		mg/Kg	2	3/22/2018 2:11:37 PM	37159
Motor Oil Range Organics (MRO)	97	96		mg/Kg	2	3/22/2018 2:11:37 PM	37159
Surr: DNOP	108	70-130		%Rec	2	3/22/2018 2:11:37 PM	37159
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	3/22/2018 2:13:52 AM	G49962
Surr: BFB	101	15-316	D	%Rec	5	3/22/2018 2:13:52 AM	G49962
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11	D	mg/Kg	5	3/22/2018 2:13:52 AM	B49962
Toluene	ND	0.23	D	mg/Kg	5	3/22/2018 2:13:52 AM	B49962
Ethylbenzene	ND	0.23	D	mg/Kg	5	3/22/2018 2:13:52 AM	B49962
Xylenes, Total	ND	0.45	D	mg/Kg	5	3/22/2018 2:13:52 AM	B49962
Surr: 4-Bromofluorobenzene	81.4	80-120	D	%Rec	5	3/22/2018 2:13:52 AM	B49962

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B43**
23-Mar-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-37175**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**37175**		RunNo:	**49987**				
Prep Date:	**3/22/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1618486**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.8	70	130			

Sample ID	**MB-37175**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**37175**		RunNo:	**49987**				
Prep Date:	**3/22/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1618487**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID	**LCS-37159**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**37159**		RunNo:	**49988**				
Prep Date:	**3/21/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1618585**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	70	130			
Surr: DNOP	3.8		5.000		75.8	70	130			

Sample ID	**MB-37159**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**37159**		RunNo:	**49988**				
Prep Date:	**3/21/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1618586**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.8	70	130			

Sample ID	**LCS-37166**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**37166**		RunNo:	**49988**				
Prep Date:	**3/21/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1619694**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.7	70	130			

Sample ID	**MB-37166**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**37166**		RunNo:	**49988**				
Prep Date:	**3/21/2018**	Analysis Date:	**3/22/2018**		SeqNo:	**1619695**	Units:	**%Rec**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B43**
23-Mar-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G49962**	RunNo: **49962**							
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618119**	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	950		1000		95.4	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G49962**	RunNo: **49962**							
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618120**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB	1100		1000		111	15	316			

Sample ID **MB-37123**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **37123**	RunNo: **49962**							
Prep Date: **3/20/2018**	Analysis Date: **3/21/2018**	SeqNo: **1618141**	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	940		1000		94.1	15	316			

Sample ID **LCS-37123**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **37123**	RunNo: **49962**							
Prep Date: **3/20/2018**	Analysis Date: **3/21/2018**	SeqNo: **1618142**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	75.9	131			
Surr: BFB	1000		1000		105	15	316			

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G49963**	RunNo: **49963**							
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618202**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.1	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G49963**	RunNo: **49963**							
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618209**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		114	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B43**
23-Mar-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G49994**	RunNo: **49994**
Prep Date:	Analysis Date: **3/22/2018**	SeqNo: **1619218** 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	930		1000		93.3	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G49994**	RunNo: **49994**
Prep Date:	Analysis Date: **3/22/2018**	SeqNo: **1619219** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	75.9	131			
Surr: BFB	1100		1000		107	15	316			

Sample ID **MB-37161**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **37161**	RunNo: **49994**
Prep Date: **3/21/2018**	Analysis Date: **3/22/2018**	SeqNo: **1619238** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		90.7	15	316			

Sample ID **LCS-37161**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **37161**	RunNo: **49994**
Prep Date: **3/21/2018**	Analysis Date: **3/22/2018**	SeqNo: **1619239** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B43**
23-Mar-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B49962**	RunNo: **49962**
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B49962**	RunNo: **49962**
Prep Date:	Analysis Date: **3/21/2018**	SeqNo: **1618156** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	77.3	128			
Toluene	0.95	0.050	1.000	0	95.2	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.9	81.6	129			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	80	120			

Sample ID **MB-37123**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **37123**	RunNo: **49962**
Prep Date: **3/20/2018**	Analysis Date: **3/21/2018**	SeqNo: **1618176** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	80	120			

Sample ID **LCS-37123**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **37123**	RunNo: **49962**
Prep Date: **3/20/2018**	Analysis Date: **3/21/2018**	SeqNo: **1618177** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.9	77.3	128			
Toluene	0.97	0.050	1.000	0	96.8	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	98.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	80	120			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1803B43**
23-Mar-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B49994**	RunNo: **49994**
Prep Date:	Analysis Date: **3/22/2018**	SeqNo: **1619259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B49994**	RunNo: **49994**
Prep Date:	Analysis Date: **3/22/2018**	SeqNo: **1619260** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	77.3	128			
Toluene	0.93	0.050	1.000	0	93.5	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1803B43 RcptNo: 1

Received By: Anne Thorne 3/21/2018 7:00:00 AM
Completed By: Anne Thorne 3/21/2018 8:18:17 AM
Reviewed By: AT/DDS 3/21/18

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

16. Additional remarks: Custody Seals intact on Soil Jars /A 03/21/18

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A Aztec NM 87410

Project Manager K Sommers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque N.M 87109

Contact: A. Freeman

Phone: 505-345-3975

PO/SO #: 725040112154

Sampler's Name: Chad D'Aponte

Sampler's Signature:

Proj. No.: 725040112154

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO 8015

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0 - (1 | 2 | 3 | 4 | 5)

Page 1 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	3/20/18	1000			P2-T82	4'	18'				1		1803B43-001
S	3/20/18	1005			P2-T83	4	18				1		-002
S	3/20/18	1010			P2-T84	4	18				1		-003
S	3/20/18	1015			P2-T85	2	18				1		-004
S	3/20/18	1020			P2-T86	2	18				1		-005
S	3/20/18	1025			P2-T87	4	18				1		-006
S	3/20/18	1030			P2-T88	4	18				1		-007
S	3/20/18	1035			P2-T89	4	18				1		-008
S	3/20/18	1040			P2-T90	4	18				1		-009
S	3/20/18	1045			P2-T91	4	18				1		-010

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush — See Note Attached

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	3-20-18	1412		3/20/18	1412
	3/20/18	1851		03/21/18	0700

NOTES:

Bill to Apex Corp Rate

Next day 3-22-18

COC Seal on Jar

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 Rio Grande Suite A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 2504011B154

Sampler's Name: Chad D'Apodi

Sampler's Signature:

Proj. No.: 72504011B154

Project Name: Lybrook Compressor Station

ANALYSIS REQUESTED: BTEX 8021, TPH GRO/DRO/MRO 8015

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 2 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	BTEX 8021	TPH GRO/DRO/MRO 8015	Lab Sample ID (Lab Use Only)
S	3/20/18	1055			P2-T93	3	18				1		X	X	1803B43-01
S	3/20/18	1100			P2-T94	4	17				1		X	X	02
S	3/20/18	1105			P2-T95	3	16				1		X	X	03
S	3/20/18	1115			P2-T96	3	16				1		X	X	04
S	3/20/18	1120			P2-T97	3	16				1		X	X	05
S	3/20/18	1125			P2-T98	3	16				1		X	X	06
S	3/20/18	1130			P2-T99	3	16				1		X	X	07
S	3/20/18	1050			P2-T92	3	18				1		X	X	08
S	3/20/18	1135			P2-T100	3	16				1		X	X	09

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush See Notes

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3-20-18	1412		3/20/18	1412
	3/21/18	1851		03/21/18	0700
	Date:	Time:		Date:	Time:
	Date:	Time:		Date:	Time:

NOTES:
Bill to Apex Corp Rate
Next day 3-22-18 COC Seal on Jars

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

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

April 11, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1804395

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/7/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T101
Project: Largo CS **Collection Date:** 4/6/2018 10:00:00 AM
Lab ID: 1804395-001 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/10/2018 9:47:12 AM	37485
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2018 9:47:12 AM	37485
Surr: DNOP	93.1	70-130		%Rec	1	4/10/2018 9:47:12 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/9/2018 2:06:30 PM	G50405
Surr: BFB	91.1	15-316		%Rec	1	4/9/2018 2:06:30 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/9/2018 2:06:30 PM	B50405
Toluene	ND	0.047		mg/Kg	1	4/9/2018 2:06:30 PM	B50405
Ethylbenzene	ND	0.047		mg/Kg	1	4/9/2018 2:06:30 PM	B50405
Xylenes, Total	ND	0.094		mg/Kg	1	4/9/2018 2:06:30 PM	B50405
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	4/9/2018 2:06:30 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T102
Project: Largo CS **Collection Date:** 4/6/2018 10:05:00 AM
Lab ID: 1804395-002 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2018 10:09:10 AM	37485
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2018 10:09:10 AM	37485
Surr: DNOP	101	70-130		%Rec	1	4/10/2018 10:09:10 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/9/2018 3:17:48 PM	G50405
Surr: BFB	91.5	15-316		%Rec	1	4/9/2018 3:17:48 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/9/2018 3:17:48 PM	B50405
Toluene	ND	0.049		mg/Kg	1	4/9/2018 3:17:48 PM	B50405
Ethylbenzene	ND	0.049		mg/Kg	1	4/9/2018 3:17:48 PM	B50405
Xylenes, Total	ND	0.098		mg/Kg	1	4/9/2018 3:17:48 PM	B50405
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	4/9/2018 3:17:48 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T103
Project: Largo CS **Collection Date:** 4/6/2018 10:10:00 AM
Lab ID: 1804395-003 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/10/2018 10:31:17 AM	37485
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2018 10:31:17 AM	37485
Surr: DNOP	102	70-130		%Rec	1	4/10/2018 10:31:17 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/9/2018 3:41:33 PM	G50405
Surr: BFB	92.0	15-316		%Rec	1	4/9/2018 3:41:33 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/9/2018 3:41:33 PM	B50405
Toluene	ND	0.045		mg/Kg	1	4/9/2018 3:41:33 PM	B50405
Ethylbenzene	ND	0.045		mg/Kg	1	4/9/2018 3:41:33 PM	B50405
Xylenes, Total	ND	0.091		mg/Kg	1	4/9/2018 3:41:33 PM	B50405
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	4/9/2018 3:41:33 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T104
Project: Largo CS **Collection Date:** 4/6/2018 10:15:00 AM
Lab ID: 1804395-004 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/10/2018 10:53:28 AM	37485
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/10/2018 10:53:28 AM	37485
Surr: DNOP	91.3	70-130		%Rec	1	4/10/2018 10:53:28 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/9/2018 4:05:22 PM	G50405
Surr: BFB	92.8	15-316		%Rec	1	4/9/2018 4:05:22 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/9/2018 4:05:22 PM	B50405
Toluene	ND	0.048		mg/Kg	1	4/9/2018 4:05:22 PM	B50405
Ethylbenzene	ND	0.048		mg/Kg	1	4/9/2018 4:05:22 PM	B50405
Xylenes, Total	ND	0.096		mg/Kg	1	4/9/2018 4:05:22 PM	B50405
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	4/9/2018 4:05:22 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T105
Project: Largo CS **Collection Date:** 4/6/2018 10:20:00 AM
Lab ID: 1804395-005 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/10/2018 11:15:40 AM	37485
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2018 11:15:40 AM	37485
Surr: DNOP	88.1	70-130		%Rec	1	4/10/2018 11:15:40 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/9/2018 4:28:59 PM	G50405
Surr: BFB	93.7	15-316		%Rec	1	4/9/2018 4:28:59 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	4/9/2018 4:28:59 PM	B50405
Toluene	ND	0.038		mg/Kg	1	4/9/2018 4:28:59 PM	B50405
Ethylbenzene	ND	0.038		mg/Kg	1	4/9/2018 4:28:59 PM	B50405
Xylenes, Total	ND	0.077		mg/Kg	1	4/9/2018 4:28:59 PM	B50405
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/9/2018 4:28:59 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T106
Project: Largo CS **Collection Date:** 4/6/2018 10:25:00 AM
Lab ID: 1804395-006 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/10/2018 11:37:37 AM	37485
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2018 11:37:37 AM	37485
Surr: DNOP	101	70-130		%Rec	1	4/10/2018 11:37:37 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/9/2018 4:52:39 PM	G50405
Surr: BFB	93.8	15-316		%Rec	1	4/9/2018 4:52:39 PM	G50405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	4/9/2018 4:52:39 PM	B50405
Toluene	ND	0.041		mg/Kg	1	4/9/2018 4:52:39 PM	B50405
Ethylbenzene	ND	0.041		mg/Kg	1	4/9/2018 4:52:39 PM	B50405
Xylenes, Total	ND	0.083		mg/Kg	1	4/9/2018 4:52:39 PM	B50405
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	4/9/2018 4:52:39 PM	B50405

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T107
Project: Largo CS **Collection Date:** 4/6/2018 10:30:00 AM
Lab ID: 1804395-007 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/10/2018 11:59:43 AM	37485
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/10/2018 11:59:43 AM	37485
Surr: DNOP	100	70-130		%Rec	1	4/10/2018 11:59:43 AM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/10/2018 1:21:45 AM	37472
Surr: BFB	87.9	15-316		%Rec	1	4/10/2018 1:21:45 AM	37472
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	4/10/2018 1:21:45 AM	37472
Toluene	ND	0.038		mg/Kg	1	4/10/2018 1:21:45 AM	37472
Ethylbenzene	ND	0.038		mg/Kg	1	4/10/2018 1:21:45 AM	37472
Xylenes, Total	ND	0.075		mg/Kg	1	4/10/2018 1:21:45 AM	37472
Surr: 4-Bromofluorobenzene	82.9	80-120		%Rec	1	4/10/2018 1:21:45 AM	37472

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T108
Project: Largo CS **Collection Date:** 4/6/2018 10:35:00 AM
Lab ID: 1804395-008 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2018 12:21:40 PM	37485
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2018 12:21:40 PM	37485
Surr: DNOP	103	70-130		%Rec	1	4/10/2018 12:21:40 PM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/10/2018 1:45:06 AM	37472
Surr: BFB	91.2	15-316		%Rec	1	4/10/2018 1:45:06 AM	37472
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	4/10/2018 1:45:06 AM	37472
Toluene	ND	0.040		mg/Kg	1	4/10/2018 1:45:06 AM	37472
Ethylbenzene	ND	0.040		mg/Kg	1	4/10/2018 1:45:06 AM	37472
Xylenes, Total	ND	0.080		mg/Kg	1	4/10/2018 1:45:06 AM	37472
Surr: 4-Bromofluorobenzene	84.9	80-120		%Rec	1	4/10/2018 1:45:06 AM	37472

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

Qualifiers:

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

Analytical Report
Lab Order **1804395**
Date Reported: **4/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T109
Project: Largo CS **Collection Date:** 4/6/2018 10:40:00 AM
Lab ID: 1804395-009 **Matrix:** MEOH (SOIL) **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/10/2018 12:43:44 PM	37485
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/10/2018 12:43:44 PM	37485
Surr: DNOP	105	70-130		%Rec	1	4/10/2018 12:43:44 PM	37485
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/10/2018 2:08:24 AM	37472
Surr: BFB	89.3	15-316		%Rec	1	4/10/2018 2:08:24 AM	37472
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	4/10/2018 2:08:24 AM	37472
Toluene	ND	0.037		mg/Kg	1	4/10/2018 2:08:24 AM	37472
Ethylbenzene	ND	0.037		mg/Kg	1	4/10/2018 2:08:24 AM	37472
Xylenes, Total	ND	0.073		mg/Kg	1	4/10/2018 2:08:24 AM	37472
Surr: 4-Bromofluorobenzene	83.5	80-120		%Rec	1	4/10/2018 2:08:24 AM	37472

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804395**

11-Apr-18

Client: Apex Titan, Inc.

Project: Largo CS

Sample ID	**LCS-37485**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37485**	RunNo:	**50425**					
Prep Date:	**4/9/2018**	Analysis Date:	**4/10/2018**	SeqNo:	**1634758**	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	85.9	70	130			
Surr: DNOP	4.2		5.000		84.3	70	130			

Sample ID	**MB-37485**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37485**	RunNo:	**50425**					
Prep Date:	**4/9/2018**	Analysis Date:	**4/10/2018**	SeqNo:	**1634759**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.8	70	130			

Sample ID	**LCS-37482**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37482**	RunNo:	**50425**					
Prep Date:	**4/9/2018**	Analysis Date:	**4/10/2018**	SeqNo:	**1635884**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	70	130			

Sample ID	**MB-37482**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37482**	RunNo:	**50425**					
Prep Date:	**4/9/2018**	Analysis Date:	**4/10/2018**	SeqNo:	**1635886**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804395**
11-Apr-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-37472**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**37472**	RunNo:	**50404**					
Prep Date:	**4/6/2018**	Analysis Date:	**4/9/2018**	SeqNo:	**1634431**	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		88.7	15	316			

Sample ID	**LCS-37472**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**37472**	RunNo:	**50404**					
Prep Date:	**4/6/2018**	Analysis Date:	**4/9/2018**	SeqNo:	**1634432**	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	115	75.9	131			
Surr: BFB	1100		1000		106	15	316			

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**G50405**	RunNo:	**50405**					
Prep Date:		Analysis Date:	**4/9/2018**	SeqNo:	**1634498**	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	950		1000		95.0	15	316			

Sample ID	**2.5UG GRO LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**G50405**	RunNo:	**50405**					
Prep Date:		Analysis Date:	**4/9/2018**	SeqNo:	**1634499**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.0	75.9	131			
Surr: BFB	1100		1000		112	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804395**
11-Apr-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-37472**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**37472**	RunNo:	**50404**					
Prep Date:	**4/6/2018**	Analysis Date:	**4/9/2018**	SeqNo:	**1634466**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	80	120			

Sample ID	**LCS-37472**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**37472**	RunNo:	**50404**					
Prep Date:	**4/6/2018**	Analysis Date:	**4/9/2018**	SeqNo:	**1634467**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.3	77.3	128			
Toluene	0.93	0.050	1.000	0	92.8	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.0	81.6	129			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	80	120			

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**B50405**	RunNo:	**50405**					
Prep Date:		Analysis Date:	**4/9/2018**	SeqNo:	**1634519**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	**100NG BTEX LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**B50405**	RunNo:	**50405**					
Prep Date:		Analysis Date:	**4/9/2018**	SeqNo:	**1634520**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.5	77.3	128			
Toluene	0.94	0.050	1.000	0	94.1	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1804395 | RcptNo: 1

Received By: Andy Freeman 4/7/2018 11:40:00 AM

Completed By: Isaiah Ortiz 4/9/2018 7:38:32 AM

Reviewed By: 04/09/18

LB; ENM

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	ENM 4/9/18
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Fireman

Phone: 505-345-3975

PO/SO #: 725040 113154

Sampler's Name: Chad Dipponti

Sampler's Signature:

Proj. No.: 725040 113154

Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021 | TPH GRO/DRO/MRO 8015

Lab use only
Due Date:
Temp. of coolers when received (C°): 3.4 C
1 2 3 4 5
Page 1 of 1

1804395
Lab Sample ID (Lab Use Only)

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	BTEX 8021	TPH GRO/DRO/MRO 8015	Lab Sample ID
S	4/6/18	1000	X		P2-T101	2	18				1		X	X	-001
S	4/6/18	1005	X		P2-T102	2	18				1		X	X	-002
S	4/6/18	1010	X		P2-T103	2	18				1		X	X	-003
S	4/6/18	1015	X		P2-T104	2	18				1		X	X	-004
S	4/6/18	1020	X		P2-T105	4	16				1		X	X	-005
S	4/6/18	1025	X		P2-T106	4	16				1		X	X	-006
S	4/6/18	1030	X		P2-T107	4	16				1		X	X	-007
S	4/6/18	1035	X		P2-T108	4	16				1		X	X	-008
S	4/6/18	1040	X		P2-T109	4	16				1		X	X	-009
S	4/6/18		X		P2-T110						1		X	X	

Turn around time: ❑ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/6/18	1430		4/6/18	1430
	4/6/18	1520		4/6/18	1520
	4/6/18	1900		4/7/18	1140

NOTES:
Bill to Apex (Corporate)
Next Day 4-10-18
COC Seal on Ice

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 13, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1804396

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/7/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1804396**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SP-5
Project: Largo CS **Collection Date:** 4/6/2018 11:00:00 AM
Lab ID: 1804396-001 **Matrix:** SOIL **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/12/2018 3:55:54 PM	37536
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/12/2018 3:55:54 PM	37536
Surr: DNOP	98.3	70-130		%Rec	1	4/12/2018 3:55:54 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2018 2:25:07 PM	37525
Surr: BFB	104	15-316		%Rec	1	4/11/2018 2:25:07 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2018 2:25:07 PM	37525
Toluene	ND	0.049		mg/Kg	1	4/11/2018 2:25:07 PM	37525
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2018 2:25:07 PM	37525
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2018 2:25:07 PM	37525
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	4/11/2018 2:25:07 PM	37525

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

Qualifiers:

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

Analytical Report
Lab Order **1804396**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SP-6
Project: Largo CS **Collection Date:** 4/6/2018 11:10:00 AM
Lab ID: 1804396-002 **Matrix:** SOIL **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/12/2018 5:02:17 PM	37536
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	4/12/2018 5:02:17 PM	37536
Surr: DNOP	94.5	70-130		%Rec	1	4/12/2018 5:02:17 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/11/2018 7:28:56 PM	37525
Surr: BFB	92.6	15-316		%Rec	1	4/11/2018 7:28:56 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2018 7:28:56 PM	37525
Toluene	ND	0.046		mg/Kg	1	4/11/2018 7:28:56 PM	37525
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2018 7:28:56 PM	37525
Xylenes, Total	ND	0.093		mg/Kg	1	4/11/2018 7:28:56 PM	37525
Surr: 4-Bromofluorobenzene	87.2	80-120		%Rec	1	4/11/2018 7:28:56 PM	37525

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

Qualifiers:

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

Analytical Report
Lab Order **1804396**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SP-7
Project: Largo CS **Collection Date:** 4/6/2018 11:20:00 AM
Lab ID: 1804396-003 **Matrix:** SOIL **Received Date:** 4/7/2018 11:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/12/2018 5:24:19 PM	37536
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/12/2018 5:24:19 PM	37536
Surr: DNOP	85.3	70-130		%Rec	1	4/12/2018 5:24:19 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/11/2018 7:52:25 PM	37525
Surr: BFB	98.3	15-316		%Rec	1	4/11/2018 7:52:25 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	4/11/2018 7:52:25 PM	37525
Toluene	ND	0.049		mg/Kg	1	4/11/2018 7:52:25 PM	37525
Ethylbenzene	ND	0.049		mg/Kg	1	4/11/2018 7:52:25 PM	37525
Xylenes, Total	ND	0.098		mg/Kg	1	4/11/2018 7:52:25 PM	37525
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	4/11/2018 7:52:25 PM	37525

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804396**
13-Apr-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**LCS-37536**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37536**	RunNo:	**50494**					
Prep Date:	**4/11/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637376**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.2		5.000		83.5	70	130			

Sample ID	**MB-37536**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37536**	RunNo:	**50494**					
Prep Date:	**4/11/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637377**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	70	130			

Sample ID	**LCS-37568**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37568**	RunNo:	**50494**					
Prep Date:	**4/12/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637385**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		85.0	70	130			

Sample ID	**MB-37568**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37568**	RunNo:	**50494**					
Prep Date:	**4/12/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637386**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804396**
13-Apr-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-37525**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637088**	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	970		1000		97.3	15	316			

Sample ID	**LCS-37525**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637089**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804396**
13-Apr-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**MB-37525**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637126**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	80	120			

Sample ID	**LCS-37525**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637127**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	77.3	128			
Toluene	0.93	0.050	1.000	0	93.2	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	94.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1804396 RcptNo: 1

Received By: Andy Freeman 4/7/2018 11:40:00 AM

Completed By: Isaiah Ortiz 4/9/2018 7:50:29 AM

Reviewed By: [illegible] 4/9/18

LB; ENM

Chain of Custody

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

Log In

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

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

Adjusted? ____

Checked by: ____

ENM 4/9/18

Special Handling (if applicable)

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

Person Notified: ____ Date: ____

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

Regarding: ____

Client Instructions: ____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S Rio Grande Suite A Aztec NM 87410
Project Manager: K Summers
Sampler's Name: Chad D'Aoust
Sampler's Signature: [signature]
Proj. No.: 725040113154
Project Name: Largo Compressor Station

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE Albuquerque NM 87109
Contact: A. Freeman
Phone: 505 345-3975
PO/SO #: 725040113154

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO/MRO; (Soils)

Lab use only
Due Date:
Temp. of coolers when received (C°): 3.1 °C
1 | 2 | 3 | 4 | 5
Page 1 of 1

1804396

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	BTEX 8021	TPH GRO/DRO/MRO	Lab Sample ID (Lab Use Only)
~~S~~	~~4/6/18~~	~~[illegible]~~	~~C~~		~~[illegible]~~						~~1~~		~~X~~	~~X~~	
S	4/6/18	1100	X		SP-5	–	–				1		X	X	-001
S	4/6/18	1110	X		SP-6	–	–				1		X	X	-002
S	4/6/18	1120	X		SP-7	–	–				1		X	X	-003

CD

N/A

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/6/18	1430	[signature]	4/6/18	1430
[signature]	4/6/18	1520	[signature]	4/6/18	1520
[signature]	4/6/18	1900	[signature]	4/7/18	1140

NOTES:
Bill to Apex (Corp Rate)
COC Seal on Jars

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 08, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1805178

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/3/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T110
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:00:00 AM
Lab ID: 1805178-001 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	9.1	4.7		mg/Kg	1	5/3/2018 11:46:01 AM	B51035
Surr: BFB	115	70-130		%Rec	1	5/3/2018 11:46:01 AM	B51035
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/3/2018 12:09:11 PM	37921
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2018 12:09:11 PM	37921
Surr: DNOP	106	70-130		%Rec	1	5/3/2018 12:09:11 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	5/3/2018 11:46:01 AM	D51035
Toluene	ND	0.047		mg/Kg	1	5/3/2018 11:46:01 AM	D51035
Ethylbenzene	ND	0.047		mg/Kg	1	5/3/2018 11:46:01 AM	D51035
Xylenes, Total	0.095	0.093		mg/Kg	1	5/3/2018 11:46:01 AM	D51035
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	5/3/2018 11:46:01 AM	D51035
Surr: Toluene-d8	92.6	70-130		%Rec	1	5/3/2018 11:46:01 AM	D51035

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

Qualifiers:

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T111
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:05:00 AM
Lab ID: 1805178-002 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/3/2018 12:55:31 PM	B51035
Surr: BFB	120	70-130		%Rec	1	5/3/2018 12:55:31 PM	B51035
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/3/2018 12:31:23 PM	37921
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/3/2018 12:31:23 PM	37921
Surr: DNOP	107	70-130		%Rec	1	5/3/2018 12:31:23 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	5/3/2018 12:55:31 PM	D51035
Toluene	ND	0.047		mg/Kg	1	5/3/2018 12:55:31 PM	D51035
Ethylbenzene	ND	0.047		mg/Kg	1	5/3/2018 12:55:31 PM	D51035
Xylenes, Total	ND	0.094		mg/Kg	1	5/3/2018 12:55:31 PM	D51035
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	5/3/2018 12:55:31 PM	D51035
Surr: Toluene-d8	88.7	70-130		%Rec	1	5/3/2018 12:55:31 PM	D51035

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

Qualifiers:

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T112
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:10:00 AM
Lab ID: 1805178-003 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	1500	25		mg/Kg	5	5/3/2018 3:37:32 PM	B51035
Surr: BFB	95.0	70-130		%Rec	5	5/3/2018 3:37:32 PM	B51035
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	20	8.7		mg/Kg	1	5/3/2018 12:53:32 PM	37921
Motor Oil Range Organics (MRO)	56	44		mg/Kg	1	5/3/2018 12:53:32 PM	37921
Surr: DNOP	101	70-130		%Rec	1	5/3/2018 12:53:32 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.13		mg/Kg	5	5/3/2018 3:37:32 PM	D51035
Toluene	ND	0.25		mg/Kg	5	5/3/2018 3:37:32 PM	D51035
Ethylbenzene	1.1	0.25		mg/Kg	5	5/3/2018 3:37:32 PM	D51035
Xylenes, Total	25	0.51		mg/Kg	5	5/3/2018 3:37:32 PM	D51035
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	5/3/2018 3:37:32 PM	D51035
Surr: Toluene-d8	105	70-130		%Rec	5	5/3/2018 3:37:32 PM	D51035

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

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T113
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:15:00 AM
Lab ID: 1805178-004 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	1600	23		mg/Kg	5	5/3/2018 4:23:55 PM	B51035
Surr: BFB	90.7	70-130		%Rec	5	5/3/2018 4:23:55 PM	B51035
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	19	9.5		mg/Kg	1	5/3/2018 1:15:43 PM	37921
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2018 1:15:43 PM	37921
Surr: DNOP	114	70-130		%Rec	1	5/3/2018 1:15:43 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.44	0.12		mg/Kg	5	5/3/2018 4:23:55 PM	D51035
Toluene	3.0	0.23		mg/Kg	5	5/3/2018 4:23:55 PM	D51035
Ethylbenzene	2.4	0.23		mg/Kg	5	5/3/2018 4:23:55 PM	D51035
Xylenes, Total	15	0.46		mg/Kg	5	5/3/2018 4:23:55 PM	D51035
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	5	5/3/2018 4:23:55 PM	D51035
Surr: Toluene-d8	88.6	70-130		%Rec	5	5/3/2018 4:23:55 PM	D51035

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

Qualifiers:

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T114
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:20:00 AM
Lab ID: 1805178-005 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	2800	390		mg/Kg	100	5/4/2018 12:53:34 PM	B51051
Surr: BFB	101	70-130		%Rec	100	5/4/2018 12:53:34 PM	B51051
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	44	9.3		mg/Kg	1	5/3/2018 1:37:50 PM	37921
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/3/2018 1:37:50 PM	37921
Surr: DNOP	114	70-130		%Rec	1	5/3/2018 1:37:50 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	0.94	0.19		mg/Kg	10	5/3/2018 4:46:59 PM	D51035
Toluene	12	0.39		mg/Kg	10	5/3/2018 4:46:59 PM	D51035
Ethylbenzene	6.3	0.39		mg/Kg	10	5/3/2018 4:46:59 PM	D51035
Xylenes, Total	63	0.78		mg/Kg	10	5/3/2018 4:46:59 PM	D51035
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	10	5/3/2018 4:46:59 PM	D51035
Surr: Toluene-d8	103	70-130		%Rec	10	5/3/2018 4:46:59 PM	D51035

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

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T115
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:25:00 AM
Lab ID: 1805178-006 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	5100	430		mg/Kg	100	5/4/2018 1:17:11 PM	B51051
Surr: BFB	105	70-130		%Rec	100	5/4/2018 1:17:11 PM	B51051
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	83	9.5		mg/Kg	1	5/3/2018 1:59:57 PM	37921
Motor Oil Range Organics (MRO)	75	48		mg/Kg	1	5/3/2018 1:59:57 PM	37921
Surr: DNOP	107	70-130		%Rec	1	5/3/2018 1:59:57 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	1.7	0.11		mg/Kg	5	5/3/2018 5:10:01 PM	D51035
Toluene	12	0.21		mg/Kg	5	5/3/2018 5:10:01 PM	D51035
Ethylbenzene	10	0.21		mg/Kg	5	5/3/2018 5:10:01 PM	D51035
Xylenes, Total	84	8.5		mg/Kg	100	5/4/2018 1:17:11 PM	A51051
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	5	5/3/2018 5:10:01 PM	D51035
Surr: Toluene-d8	98.7	70-130		%Rec	5	5/3/2018 5:10:01 PM	D51035

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

Qualifiers:

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

Analytical Report
Lab Order **1805178**
Date Reported: **5/8/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** P2-T116
Project: Largo Compressor Station **Collection Date:** 5/2/2018 10:30:00 AM
Lab ID: 1805178-007 **Matrix:** SOIL **Received Date:** 5/3/2018 7:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/3/2018 5:33:04 PM	B51035
Surr: BFB	112	70-130		%Rec	1	5/3/2018 5:33:04 PM	B51035
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	5/3/2018 2:22:00 PM	37921
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/3/2018 2:22:00 PM	37921
Surr: DNOP	106	70-130		%Rec	1	5/3/2018 2:22:00 PM	37921
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	5/3/2018 5:33:04 PM	D51035
Toluene	ND	0.048		mg/Kg	1	5/3/2018 5:33:04 PM	D51035
Ethylbenzene	ND	0.048		mg/Kg	1	5/3/2018 5:33:04 PM	D51035
Xylenes, Total	ND	0.095		mg/Kg	1	5/3/2018 5:33:04 PM	D51035
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	5/3/2018 5:33:04 PM	D51035
Surr: Toluene-d8	86.3	70-130		%Rec	1	5/3/2018 5:33:04 PM	D51035

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805178**
08-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**LCS-37921**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**37921**		RunNo:	**50978**				
Prep Date:	**5/3/2018**	Analysis Date:	**5/3/2018**		SeqNo:	**1656303**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	70	130			
Surr: DNOP	4.9		5.000		97.7	70	130			

Sample ID	**MB-37921**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**37921**		RunNo:	**50978**				
Prep Date:	**5/3/2018**	Analysis Date:	**5/3/2018**		SeqNo:	**1656304**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805178**
08-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**1805178-002ams**	SampType:	**MS4**	TestCode:	**EPA Method 8260B: Volatiles Short List**					
Client ID:	**P2-T111**	Batch ID:	**D51035**	RunNo:	**51035**					
Prep Date:		Analysis Date:	**5/3/2018**	SeqNo:	**1657358**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.023	0.9381	0	76.6	80	120			S
Toluene	0.89	0.047	0.9381	0.003846	94.9	80	120			
Ethylbenzene	0.94	0.047	0.9381	0	99.8	80	120			
Xylenes, Total	2.8	0.094	2.814	0.02220	98.6	80	120			
Surr: 4-Bromofluorobenzene	0.51		0.4690		109	70	130			
Surr: Toluene-d8	0.43		0.4690		91.9	70	130			

Sample ID	**1805178-002amsd**	SampType:	**MSD4**	TestCode:	**EPA Method 8260B: Volatiles Short List**					
Client ID:	**P2-T111**	Batch ID:	**D51035**	RunNo:	**51035**					
Prep Date:		Analysis Date:	**5/3/2018**	SeqNo:	**1657359**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.023	0.9381	0	78.6	80	120	2.62	0	S
Toluene	0.83	0.047	0.9381	0.003846	88.3	80	120	7.20	0	
Ethylbenzene	0.89	0.047	0.9381	0	94.7	80	120	5.21	0	
Xylenes, Total	2.7	0.094	2.814	0.02220	95.7	80	120	2.90	0	
Surr: 4-Bromofluorobenzene	0.56		0.4690		120	70	130	0	0	
Surr: Toluene-d8	0.42		0.4690		89.1	70	130	0	0	

Sample ID	**rb2**	SampType:	**MBLK**	TestCode:	**EPA Method 8260B: Volatiles Short List**					
Client ID:	**PBS**	Batch ID:	**D51035**	RunNo:	**51035**					
Prep Date:		Analysis Date:	**5/3/2018**	SeqNo:	**1657366**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.57		0.5000		114	70	130			
Surr: Toluene-d8	0.48		0.5000		96.7	70	130			

Sample ID	**100ng lcs2**	SampType:	**LCS4**	TestCode:	**EPA Method 8260B: Volatiles Short List**					
Client ID:	**BatchQC**	Batch ID:	**D51035**	RunNo:	**51035**					
Prep Date:		Analysis Date:	**5/3/2018**	SeqNo:	**1657854**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805178**
08-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **100ng lcs2**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **D51035**	RunNo: **51035**
Prep Date:	Analysis Date: **5/3/2018**	SeqNo: **1657854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Toluene-d8	0.48		0.5000		96.8	70	130			

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **A51051**	RunNo: **51051**
Prep Date:	Analysis Date: **5/4/2018**	SeqNo: **1658036** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.9	70	130			
Surr: Toluene-d8	0.49		0.5000		97.4	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **A51051**	RunNo: **51051**
Prep Date:	Analysis Date: **5/4/2018**	SeqNo: **1658045** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.61		0.5000		121	70	130			
Surr: Toluene-d8	0.49		0.5000		98.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805178**
08-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **B51035**	RunNo: **51035**
Prep Date:	Analysis Date: **5/3/2018**	SeqNo: **1657192** 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	101	70	130			
Surr: BFB	480		500.0		95.2	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **B51035**	RunNo: **51035**
Prep Date:	Analysis Date: **5/3/2018**	SeqNo: **1657193** 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	510		500.0		102	70	130			

Sample ID **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **B51051**	RunNo: **51051**
Prep Date:	Analysis Date: **5/4/2018**	SeqNo: **1658033** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.5	70	130			
Surr: BFB	480		500.0		95.5	70	130			

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **B51051**	RunNo: **51051**
Prep Date:	Analysis Date: **5/4/2018**	SeqNo: **1658034** 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	560		500.0		111	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1805178 RcptNo: 1

Received By: Anne Thorne 5/3/2018 7:55:00 AM

Completed By: Anne Thorne 5/3/2018 8:18:01 AM

Reviewed By: MP 05/03/18

Labeled by: AT 5/3/18

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 5/3/18

17. **Cooler Information**

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

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande
Suite A
Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque N.M 87109
Contact: A. Fleeman
Phone: 505-345-3975
PO/SO #: 725040112154

Sampler's Name: Chad D'Apont
Sampler's Signature:

Proj. No. 725040112154
Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021; TPH GRO/DRO 8015

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	5/2/18	1000	X		P2-T110	3	11				1		1805178-201
S	5/2/18	1005	X		P2-T111	3	11				1		-202
S	5/2/18	1010	X		P2-T112	3	11				1		-203
S	5/2/18	1015	X		P2-T113	3	11				1		-204
S	5/2/18	1020	X		P2-T114	3	11				1		-205
S	5/2/18	1025	X		P2-T115	3	11				1		-206
S	5/2/18	1030	X		P2-T116	3	11				1		-207

Turn around time: ☐ Normal ☐ 25% Rush ☐ 50% Rush ☒ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/2/18	1315		5/2/18	1315
	5/2/18	1811		05/03/18	0855
					0755

NOTES:
Bill to Apex (Corp Rate)
Next ~~Same~~ day
5-4-18
COC on Jars CW

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 30, 2019

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

RE: Largo Compressor Station OrderNo.: 1905D31

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/29/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-117
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:00:00 AM
Lab ID: 1905D31-001 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	100	61		mg/Kg	20	5/29/2019 10:31:32 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	5/29/2019 10:26:44 AM	45231
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/29/2019 10:26:44 AM	45231
Surr: DNOP	94.3	70-130		%Rec	1	5/29/2019 10:26:44 AM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/29/2019 2:24:46 PM	45225
Surr: BFB	86.7	73.8-119		%Rec	1	5/29/2019 2:24:46 PM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/29/2019 2:24:46 PM	45225
Toluene	ND	0.048		mg/Kg	1	5/29/2019 2:24:46 PM	45225
Ethylbenzene	ND	0.048		mg/Kg	1	5/29/2019 2:24:46 PM	45225
Xylenes, Total	ND	0.096		mg/Kg	1	5/29/2019 2:24:46 PM	45225
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	5/29/2019 2:24:46 PM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-118
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:05:00 AM
Lab ID: 1905D31-002 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	170	60		mg/Kg	20	5/29/2019 10:43:56 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	57	9.0		mg/Kg	1	5/29/2019 10:51:18 AM	45231
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	5/29/2019 10:51:18 AM	45231
Surr: DNOP	104	70-130		%Rec	1	5/29/2019 10:51:18 AM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	390	22		mg/Kg	5	5/29/2019 9:52:19 AM	45225
Surr: BFB	408	73.8-119	S	%Rec	5	5/29/2019 9:52:19 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.18	0.11		mg/Kg	5	5/29/2019 9:52:19 AM	45225
Toluene	3.6	0.22		mg/Kg	5	5/29/2019 9:52:19 AM	45225
Ethylbenzene	1.5	0.22		mg/Kg	5	5/29/2019 9:52:19 AM	45225
Xylenes, Total	19	0.44		mg/Kg	5	5/29/2019 9:52:19 AM	45225
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	5	5/29/2019 9:52:19 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-119
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:10:00 AM
Lab ID: 1905D31-003 **Matrix:** SOIL **Received Date:** 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	150	60		mg/Kg	20	5/29/2019 10:56:21 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/29/2019 11:15:40 AM	45231
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/29/2019 11:15:40 AM	45231
Surr: DNOP	96.0	70-130		%Rec	1	5/29/2019 11:15:40 AM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	130	22		mg/Kg	5	5/29/2019 10:15:07 AM	45225
Surr: BFB	201	73.8-119	S	%Rec	5	5/29/2019 10:15:07 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	5/29/2019 10:15:07 AM	45225
Toluene	0.93	0.22		mg/Kg	5	5/29/2019 10:15:07 AM	45225
Ethylbenzene	0.48	0.22		mg/Kg	5	5/29/2019 10:15:07 AM	45225
Xylenes, Total	7.0	0.43		mg/Kg	5	5/29/2019 10:15:07 AM	45225
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	5	5/29/2019 10:15:07 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-120
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:15:00 AM
Lab ID: 1905D31-004 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	190	60		mg/Kg	20	5/29/2019 11:08:46 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	15	9.6		mg/Kg	1	5/29/2019 11:40:06 AM	45231
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/29/2019 11:40:06 AM	45231
Surr: DNOP	98.3	70-130		%Rec	1	5/29/2019 11:40:06 AM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	140	21		mg/Kg	5	5/29/2019 10:37:55 AM	45225
Surr: BFB	226	73.8-119	S	%Rec	5	5/29/2019 10:37:55 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	5/29/2019 10:37:55 AM	45225
Toluene	ND	0.21		mg/Kg	5	5/29/2019 10:37:55 AM	45225
Ethylbenzene	0.48	0.21		mg/Kg	5	5/29/2019 10:37:55 AM	45225
Xylenes, Total	5.6	0.42		mg/Kg	5	5/29/2019 10:37:55 AM	45225
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	5	5/29/2019 10:37:55 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-121
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:20:00 AM
Lab ID: 1905D31-005 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	110	60		mg/Kg	20	5/29/2019 11:21:11 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	63	10		mg/Kg	1	5/29/2019 12:04:36 PM	45231
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	5/29/2019 12:04:36 PM	45231
Surr: DNOP	99.7	70-130		%Rec	1	5/29/2019 12:04:36 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	98	22		mg/Kg	5	5/29/2019 11:00:50 AM	45225
Surr: BFB	156	73.8-119	S	%Rec	5	5/29/2019 11:00:50 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	5/29/2019 11:00:50 AM	45225
Toluene	0.25	0.22		mg/Kg	5	5/29/2019 11:00:50 AM	45225
Ethylbenzene	0.41	0.22		mg/Kg	5	5/29/2019 11:00:50 AM	45225
Xylenes, Total	4.0	0.44		mg/Kg	5	5/29/2019 11:00:50 AM	45225
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	5	5/29/2019 11:00:50 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-122
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:25:00 AM
Lab ID: 1905D31-006 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	140	60		mg/Kg	20	5/29/2019 11:33:36 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/29/2019 12:29:03 PM	45231
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/29/2019 12:29:03 PM	45231
Surr: DNOP	100	70-130		%Rec	1	5/29/2019 12:29:03 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	9.4	4.7		mg/Kg	1	5/29/2019 11:23:29 AM	45225
Surr: BFB	116	73.8-119		%Rec	1	5/29/2019 11:23:29 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	5/29/2019 11:23:29 AM	45225
Toluene	ND	0.047		mg/Kg	1	5/29/2019 11:23:29 AM	45225
Ethylbenzene	ND	0.047		mg/Kg	1	5/29/2019 11:23:29 AM	45225
Xylenes, Total	0.21	0.094		mg/Kg	1	5/29/2019 11:23:29 AM	45225
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/29/2019 11:23:29 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-123
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:30:00 AM
Lab ID: 1905D31-007 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	300	60		mg/Kg	20	5/29/2019 11:46:00 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/29/2019 12:53:29 PM	45231
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/29/2019 12:53:29 PM	45231
Surr: DNOP	99.9	70-130		%Rec	1	5/29/2019 12:53:29 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	230	3.5		mg/Kg	1	5/29/2019 11:46:09 AM	45225
Surr: BFB	1190	73.8-119	S	%Rec	1	5/29/2019 11:46:09 AM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.19	0.017		mg/Kg	1	5/29/2019 11:46:09 AM	45225
Toluene	0.075	0.035		mg/Kg	1	5/29/2019 11:46:09 AM	45225
Ethylbenzene	0.85	0.035		mg/Kg	1	5/29/2019 11:46:09 AM	45225
Xylenes, Total	4.7	0.070		mg/Kg	1	5/29/2019 11:46:09 AM	45225
Surr: 4-Bromofluorobenzene	172	80-120	S	%Rec	1	5/29/2019 11:46:09 AM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-124
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:35:00 AM
Lab ID: 1905D31-008 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	410	60		mg/Kg	20	5/29/2019 11:58:24 AM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/29/2019 1:17:56 PM	45231
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/29/2019 1:17:56 PM	45231
Surr: DNOP	100	70-130		%Rec	1	5/29/2019 1:17:56 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	5/29/2019 12:08:53 PM	45225
Surr: BFB	135	73.8-119	S	%Rec	1	5/29/2019 12:08:53 PM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	5/29/2019 12:08:53 PM	45225
Toluene	ND	0.043		mg/Kg	1	5/29/2019 12:08:53 PM	45225
Ethylbenzene	ND	0.043		mg/Kg	1	5/29/2019 12:08:53 PM	45225
Xylenes, Total	ND	0.086		mg/Kg	1	5/29/2019 12:08:53 PM	45225
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	5/29/2019 12:08:53 PM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-125
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:40:00 AM
Lab ID: 1905D31-009 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	360	61		mg/Kg	20	5/29/2019 12:35:38 PM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/29/2019 1:42:21 PM	45231
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/29/2019 1:42:21 PM	45231
Surr: DNOP	102	70-130		%Rec	1	5/29/2019 1:42:21 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	5/29/2019 12:31:30 PM	45225
Surr: BFB	90.0	73.8-119		%Rec	1	5/29/2019 12:31:30 PM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.018		mg/Kg	1	5/29/2019 12:31:30 PM	45225
Toluene	ND	0.036		mg/Kg	1	5/29/2019 12:31:30 PM	45225
Ethylbenzene	ND	0.036		mg/Kg	1	5/29/2019 12:31:30 PM	45225
Xylenes, Total	ND	0.072		mg/Kg	1	5/29/2019 12:31:30 PM	45225
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	5/29/2019 12:31:30 PM	45225

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

Qualifiers:

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

Analytical Report
Lab Order **1905D31**
Date Reported: **5/30/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: P2-126
Project: Largo Compressor Station
Collection Date: 5/28/2019 11:45:00 AM
Lab ID: 1905D31-010 **Matrix:** SOIL
Received Date: 5/29/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	100	60		mg/Kg	20	5/29/2019 12:48:03 PM	45236
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/29/2019 2:06:53 PM	45231
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/29/2019 2:06:53 PM	45231
Surr: DNOP	97.2	70-130		%Rec	1	5/29/2019 2:06:53 PM	45231
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	5/29/2019 12:54:07 PM	45225
Surr: BFB	88.4	73.8-119		%Rec	1	5/29/2019 12:54:07 PM	45225
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	5/29/2019 12:54:07 PM	45225
Toluene	ND	0.044		mg/Kg	1	5/29/2019 12:54:07 PM	45225
Ethylbenzene	ND	0.044		mg/Kg	1	5/29/2019 12:54:07 PM	45225
Xylenes, Total	ND	0.087		mg/Kg	1	5/29/2019 12:54:07 PM	45225
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	5/29/2019 12:54:07 PM	45225

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1905D31**
30-May-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **MB-45236** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **45236** RunNo: **60234**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2035991** Units: **mg/Kg**

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

Sample ID: **LCS-45236** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **45236** RunNo: **60234**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2035992** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1905D31**
30-May-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **LCS-45231** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **45231** RunNo: **60222**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2034934** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	63.9	124			
Surr: DNOP	4.5		5.000		89.6	70	130			

Sample ID: **MB-45231** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **45231** RunNo: **60222**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2034935** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.2	70	130			

Sample ID: **1905D31-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P2-117** Batch ID: **45231** RunNo: **60222**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2035666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	49.85	0	104	53.5	126			
Surr: DNOP	4.9		4.985		98.0	70	130			

Sample ID: **1905D31-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **P2-117** Batch ID: **45231** RunNo: **60222**
Prep Date: **5/29/2019** Analysis Date: **5/29/2019** SeqNo: **2035667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.5	47.71	0	101	53.5	126	7.91	21.7	
Surr: DNOP	4.5		4.771		94.6	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1905D31**
30-May-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **MB-45225** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45225** RunNo: **60232**
Prep Date: **5/28/2019** Analysis Date: **5/29/2019** SeqNo: **2035677** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.4	73.8	119			

Sample ID: **LCS-45225** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45225** RunNo: **60232**
Prep Date: **5/28/2019** Analysis Date: **5/29/2019** SeqNo: **2035678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.6	80.1	123			
Surr: BFB	1000		1000		104	73.8	119			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1905D31**
30-May-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **MB-45225** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **45225** RunNo: **60232**
Prep Date: **5/28/2019** Analysis Date: **5/29/2019** SeqNo: **2035688** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	80	120			

Sample ID: **LCS-45225** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **45225** RunNo: **60232**
Prep Date: **5/28/2019** Analysis Date: **5/29/2019** SeqNo: **2035689** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.0	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: **1905D31-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **P2-117** Batch ID: **45225** RunNo: **60232**
Prep Date: Analysis Date: **5/29/2019** SeqNo: **2035691** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.024	0.9560	0	74.7	63.9	127			
Toluene	1.0	0.048	0.9560	0	104	69.9	131			
Ethylbenzene	0.99	0.048	0.9560	0.006195	103	71	132			
Xylenes, Total	2.9	0.096	2.868	0	100	71.8	131			
Surr: 4-Bromofluorobenzene	0.98		0.9560		103	80	120			

Sample ID: **1905D31-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **P2-117** Batch ID: **45225** RunNo: **60232**
Prep Date: Analysis Date: **5/29/2019** SeqNo: **2035692** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9560	0	88.5	63.9	127	16.9	20	
Toluene	0.96	0.048	0.9560	0	101	69.9	131	3.50	20	
Ethylbenzene	0.95	0.048	0.9560	0.006195	98.9	71	132	3.54	20	
Xylenes, Total	2.8	0.096	2.868	0	96.5	71.8	131	4.00	20	
Surr: 4-Bromofluorobenzene	1.0		0.9560		105	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1905D31 RcptNo: 1

Received By: Leah Baca 5/29/2019 8:10:00 AM

Completed By: Anne Thorne 5/29/2019 8:19:45 AM

Reviewed By: ENM 5/29/19

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____ 05/29/19

Special Handling (if applicable)

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

Person Notified: _____ Date _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 5/29/19

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A Aztec NM

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☐ Standard ☒ Rush 5-29-19 (No Ro)

Project Name: Largo Compressor Station

Project #: 05A1226001

Project Manager: K Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.8-.85=2.?C

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1905D31	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300					
5/28/19	1100	S	P2-117	1 4oz Jar		001	X	X									X					
	1105		P2-118			002																
	1110		P2-119			003																
	1115		P2-120			004																
	1120		P2-121			005																
	1125		P2-122			006																
	1130		P2-123			007																
	1135		P2-124			008																
	1140		P2-125			009																
	1145		P2-126			010																

Date	Time	Relinquished by	Received by	Via	Date	Time
5/28/19	1534	[signature]	Christin Walters		5/28/19	1534
5/28/19	1809	Christin Walters	[signature]	Courier	5/29/19	0810

Remarks: PM Tom Long (same day)

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 05, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 1906003

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 6/1/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

CLIENT: ENSOLUM
Client Sample ID: P2-127
Project: Largo CS
Collection Date: 5/31/2019 12:00:00 PM
Lab ID: 1906003-001
Matrix: MEOH (SOIL)
Received Date: 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	590	60		mg/Kg	20	6/3/2019 12:32:59 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/3/2019 10:47:51 AM	45319
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2019 10:47:51 AM	45319
Surr: DNOP	107	70-130		%Rec	1	6/3/2019 10:47:51 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/3/2019 10:45:50 AM	R60348
Surr: BFB	90.1	73.8-119		%Rec	1	6/3/2019 10:45:50 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.022		mg/Kg	1	6/3/2019 10:45:50 AM	B60348
Toluene	ND	0.044		mg/Kg	1	6/3/2019 10:45:50 AM	B60348
Ethylbenzene	ND	0.044		mg/Kg	1	6/3/2019 10:45:50 AM	B60348
Xylenes, Total	ND	0.089		mg/Kg	1	6/3/2019 10:45:50 AM	B60348
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	6/3/2019 10:45:50 AM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-128
Project: Largo CS **Collection Date:** 5/31/2019 12:05:00 PM
Lab ID: 1906003-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	160	60		mg/Kg	20	6/3/2019 12:45:24 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/3/2019 11:12:27 AM	45319
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2019 11:12:27 AM	45319
Surr: DNOP	110	70-130		%Rec	1	6/3/2019 11:12:27 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	6/3/2019 11:08:40 AM	R60348
Surr: BFB	88.8	73.8-119		%Rec	1	6/3/2019 11:08:40 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	6/3/2019 11:08:40 AM	B60348
Toluene	ND	0.043		mg/Kg	1	6/3/2019 11:08:40 AM	B60348
Ethylbenzene	ND	0.043		mg/Kg	1	6/3/2019 11:08:40 AM	B60348
Xylenes, Total	ND	0.086		mg/Kg	1	6/3/2019 11:08:40 AM	B60348
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	6/3/2019 11:08:40 AM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-129
Project: Largo CS **Collection Date:** 5/31/2019 12:10:00 PM
Lab ID: 1906003-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	220	59		mg/Kg	20	6/3/2019 12:57:48 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2019 11:36:56 AM	45319
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/3/2019 11:36:56 AM	45319
Surr: DNOP	114	70-130		%Rec	1	6/3/2019 11:36:56 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/3/2019 11:31:22 AM	R60348
Surr: BFB	88.3	73.8-119		%Rec	1	6/3/2019 11:31:22 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	6/3/2019 11:31:22 AM	B60348
Toluene	ND	0.039		mg/Kg	1	6/3/2019 11:31:22 AM	B60348
Ethylbenzene	ND	0.039		mg/Kg	1	6/3/2019 11:31:22 AM	B60348
Xylenes, Total	ND	0.078		mg/Kg	1	6/3/2019 11:31:22 AM	B60348
Surr: 4-Bromofluorobenzene	96.1	80-120		%Rec	1	6/3/2019 11:31:22 AM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-130
Project: Largo CS **Collection Date:** 5/31/2019 12:15:00 PM
Lab ID: 1906003-004 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	160	60		mg/Kg	20	6/3/2019 1:10:12 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/3/2019 12:01:33 PM	45319
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/3/2019 12:01:33 PM	45319
Surr: DNOP	115	70-130		%Rec	1	6/3/2019 12:01:33 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/3/2019 11:54:05 AM	R60348
Surr: BFB	91.4	73.8-119		%Rec	1	6/3/2019 11:54:05 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	6/3/2019 11:54:05 AM	B60348
Toluene	ND	0.042		mg/Kg	1	6/3/2019 11:54:05 AM	B60348
Ethylbenzene	ND	0.042		mg/Kg	1	6/3/2019 11:54:05 AM	B60348
Xylenes, Total	ND	0.085		mg/Kg	1	6/3/2019 11:54:05 AM	B60348
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	6/3/2019 11:54:05 AM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-131
Project: Largo CS **Collection Date:** 5/31/2019 12:20:00 PM
Lab ID: 1906003-005 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	89	60		mg/Kg	20	6/3/2019 1:22:36 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2019 12:26:03 PM	45319
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2019 12:26:03 PM	45319
Surr: DNOP	114	70-130		%Rec	1	6/3/2019 12:26:03 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/3/2019 12:16:49 PM	R60348
Surr: BFB	89.2	73.8-119		%Rec	1	6/3/2019 12:16:49 PM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.022		mg/Kg	1	6/3/2019 12:16:49 PM	B60348
Toluene	ND	0.044		mg/Kg	1	6/3/2019 12:16:49 PM	B60348
Ethylbenzene	ND	0.044		mg/Kg	1	6/3/2019 12:16:49 PM	B60348
Xylenes, Total	ND	0.088		mg/Kg	1	6/3/2019 12:16:49 PM	B60348
Surr: 4-Bromofluorobenzene	95.7	80-120		%Rec	1	6/3/2019 12:16:49 PM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-132
Project: Largo CS **Collection Date:** 5/31/2019 12:25:00 PM
Lab ID: 1906003-006 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	6/3/2019 2:01:33 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/3/2019 12:50:40 PM	45319
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2019 12:50:40 PM	45319
Surr: DNOP	115	70-130		%Rec	1	6/3/2019 12:50:40 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	6/3/2019 12:39:37 PM	R60348
Surr: BFB	103	73.8-119		%Rec	5	6/3/2019 12:39:37 PM	R60348
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	6/3/2019 12:39:37 PM	B60348
Toluene	ND	0.22		mg/Kg	5	6/3/2019 12:39:37 PM	B60348
Ethylbenzene	ND	0.22		mg/Kg	5	6/3/2019 12:39:37 PM	B60348
Xylenes, Total	ND	0.44		mg/Kg	5	6/3/2019 12:39:37 PM	B60348
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	5	6/3/2019 12:39:37 PM	B60348

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-133
Project: Largo CS **Collection Date:** 5/31/2019 12:30:00 PM
Lab ID: 1906003-007 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	6/3/2019 12:20:51 PM	45328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/3/2019 1:15:12 PM	45319
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/3/2019 1:15:12 PM	45319
Surr: DNOP	111	70-130		%Rec	1	6/3/2019 1:15:12 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	6/3/2019 9:42:44 AM	R60347
Surr: BFB	133	73.8-119	S	%Rec	1	6/3/2019 9:42:44 AM	R60347
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	6/3/2019 9:42:44 AM	B60347
Toluene	ND	0.041		mg/Kg	1	6/3/2019 9:42:44 AM	B60347
Ethylbenzene	ND	0.041		mg/Kg	1	6/3/2019 9:42:44 AM	B60347
Xylenes, Total	ND	0.082		mg/Kg	1	6/3/2019 9:42:44 AM	B60347
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	6/3/2019 9:42:44 AM	B60347

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-134
Project: Largo CS **Collection Date:** 5/31/2019 12:35:00 PM
Lab ID: 1906003-008 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	ND	60		mg/Kg	20	6/3/2019 12:33:15 PM	45328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2019 1:39:47 PM	45319
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2019 1:39:47 PM	45319
Surr: DNOP	115	70-130		%Rec	1	6/3/2019 1:39:47 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/3/2019 10:06:13 AM	R60347
Surr: BFB	91.1	73.8-119		%Rec	1	6/3/2019 10:06:13 AM	R60347
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	6/3/2019 10:06:13 AM	B60347
Toluene	ND	0.042		mg/Kg	1	6/3/2019 10:06:13 AM	B60347
Ethylbenzene	ND	0.042		mg/Kg	1	6/3/2019 10:06:13 AM	B60347
Xylenes, Total	ND	0.085		mg/Kg	1	6/3/2019 10:06:13 AM	B60347
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/3/2019 10:06:13 AM	B60347

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-135
Project: Largo CS **Collection Date:** 5/31/2019 12:40:00 PM
Lab ID: 1906003-009 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	69	60		mg/Kg	20	6/3/2019 12:45:40 PM	45328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/3/2019 12:45:53 PM	45319
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/3/2019 12:45:53 PM	45319
Surr: DNOP	102	70-130		%Rec	1	6/3/2019 12:45:53 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/3/2019 10:29:43 AM	R60347
Surr: BFB	93.0	73.8-119		%Rec	1	6/3/2019 10:29:43 AM	R60347
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.018		mg/Kg	1	6/3/2019 10:29:43 AM	B60347
Toluene	ND	0.036		mg/Kg	1	6/3/2019 10:29:43 AM	B60347
Ethylbenzene	ND	0.036		mg/Kg	1	6/3/2019 10:29:43 AM	B60347
Xylenes, Total	ND	0.071		mg/Kg	1	6/3/2019 10:29:43 AM	B60347
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	6/3/2019 10:29:43 AM	B60347

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-136
Project: Largo CS **Collection Date:** 5/31/2019 12:45:00 PM
Lab ID: 1906003-010 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	69	61		mg/Kg	20	6/3/2019 12:58:04 PM	45328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/3/2019 12:23:54 PM	45319
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/3/2019 12:23:54 PM	45319
Surr: DNOP	99.0	70-130		%Rec	1	6/3/2019 12:23:54 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/3/2019 10:53:11 AM	R60347
Surr: BFB	91.0	73.8-119		%Rec	1	6/3/2019 10:53:11 AM	R60347
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	6/3/2019 10:53:11 AM	B60347
Toluene	ND	0.042		mg/Kg	1	6/3/2019 10:53:11 AM	B60347
Ethylbenzene	ND	0.042		mg/Kg	1	6/3/2019 10:53:11 AM	B60347
Xylenes, Total	ND	0.084		mg/Kg	1	6/3/2019 10:53:11 AM	B60347
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/3/2019 10:53:11 AM	B60347

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

Qualifiers:

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

Analytical Report
Lab Order **1906003**
Date Reported: **6/5/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-137
Project: Largo CS **Collection Date:** 5/31/2019 12:50:00 PM
Lab ID: 1906003-011 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	290	60		mg/Kg	20	6/3/2019 1:10:28 PM	45328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	6/3/2019 12:01:34 PM	45319
Motor Oil Range Organics (MRO)	53	49		mg/Kg	1	6/3/2019 12:01:34 PM	45319
Surr: DNOP	102	70-130		%Rec	1	6/3/2019 12:01:34 PM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	630	25		mg/Kg	5	6/3/2019 11:16:41 AM	R60347
Surr: BFB	794	73.8-119	S	%Rec	5	6/3/2019 11:16:41 AM	R60347
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.13		mg/Kg	5	6/3/2019 11:16:41 AM	B60347
Toluene	ND	0.25		mg/Kg	5	6/3/2019 11:16:41 AM	B60347
Ethylbenzene	ND	0.25		mg/Kg	5	6/3/2019 11:16:41 AM	B60347
Xylenes, Total	5.4	0.51		mg/Kg	5	6/3/2019 11:16:41 AM	B60347
Surr: 4-Bromofluorobenzene	138	80-120	S	%Rec	5	6/3/2019 11:16:41 AM	B60347

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **MB-45327**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **45327**	RunNo: **60350**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2040927**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45327**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **45327**	RunNo: **60350**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2040928**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Sample ID: **MB-45328**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **45328**	RunNo: **60349**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2041072**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45328**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **45328**	RunNo: **60349**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2041073**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **LCS-45319**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **45319**	RunNo: **60335**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2039825**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	63.9	124			
Surr: DNOP	4.4		5.000		87.0	70	130			

Sample ID: **MB-45319**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **45319**	RunNo: **60335**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2039826**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **R60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041035** 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	92.0	80.1	123			
Surr: BFB	1000		1000		105	73.8	119			

Sample ID: **LCS-45298** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45298** RunNo: **60348**
Prep Date: **5/31/2019** Analysis Date: **6/3/2019** SeqNo: **2041036** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	73.8	119			

Sample ID: **MB-45298** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **45298** RunNo: **60348**
Prep Date: **5/31/2019** Analysis Date: **6/3/2019** SeqNo: **2041037** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	890		1000		89.3	73.8	119			

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **R60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041038** 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	950		1000		95.3	73.8	119			

Sample ID: **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **R60347** RunNo: **60347**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041224** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	80.1	123			
Surr: BFB	1100		1000		106	73.8	119			

Sample ID: **LCS-45303** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **45303** RunNo: **60347**
Prep Date: **5/31/2019** Analysis Date: **6/3/2019** SeqNo: **2041225** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	73.8	119			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **MB-45303**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **45303**	RunNo: **60347**
Prep Date: **5/31/2019**	Analysis Date: **6/3/2019**	SeqNo: **2041226** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.8	73.8	119			

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R60347**	RunNo: **60347**
Prep Date:	Analysis Date: **6/3/2019**	SeqNo: **2041227** 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	940		1000		93.7	73.8	119			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: **LCS-45298** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **45298** RunNo: **60348**
Prep Date: **5/31/2019** Analysis Date: **6/3/2019** SeqNo: **2041067** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: **MB-45298** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **45298** RunNo: **60348**
Prep Date: **5/31/2019** Analysis Date: **6/3/2019** SeqNo: **2041068** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.5	80	120			

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041069** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B60347** RunNo: **60347**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906003**
05-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **B60347**	RunNo: **60347**							
Prep Date:	Analysis Date: **6/3/2019**	SeqNo: **2041231**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: **LCS-45303**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **45303**	RunNo: **60347**							
Prep Date: **5/31/2019**	Analysis Date: **6/3/2019**	SeqNo: **2041246**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: **MB-45303**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **45303**	RunNo: **60347**							
Prep Date: **5/31/2019**	Analysis Date: **6/3/2019**	SeqNo: **2041247**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **B60347**	RunNo: **60347**							
Prep Date:	Analysis Date: **6/3/2019**	SeqNo: **2041248**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1906003** RcptNo: 1

Received By: **Desiree Dominguez** **6/1/2019 8:30:00 AM** DD

Completed By: **Desiree Dominguez** **6/1/2019 9:12:11 AM** DD

Reviewed By: DAD 6/1/19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: YL 6/1/19

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Not Present			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Ensolum	Turn-Around Time: 10 Day ☐ Standard ☒ Rush 6-3-19
Mailing Address: 606 S Rio Grande Suit A Aztec NM	Project Name: Largo Compressor Station
Phone #:	Project #: 05A1226601
email or Fax#:	Project Manager: K Summers
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)	Sampler: CDApodaca
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	# of Coolers: 1
	Cooler Temp(including CF): 2.5-0.2 = 2.3°c

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906003
5/31/19	1200	S	PZ-127	1 40z Jar	Cool	-001
	1205		PZ-128			-002
	1210		PZ-129			-003
	1215		PZ-130			-004
	1220		PZ-131			-005
	1225		PZ-132			-006
	1230		PZ-133			-007
	1235		PZ-134			-008
	1240		PZ-135			-009
	1245		PZ-136			-010
	1250		PZ-137			-011

Analysis Request

BTEX / ~~MTBE~~ / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300
X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5-31-19	1602					
5/31/19	1820			Courier	6/1/19	8:30

Remarks: pm - ~~Tom Long~~ Ensolum Kyle Summers (Same Day)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 04, 2019

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1906001

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/1/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906001**
Date Reported: **6/4/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-8
Project: Largo CS **Collection Date:** 5/31/2019 1:00:00 PM
Lab ID: 1906001-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	400	60		mg/Kg	20	6/3/2019 11:55:46 AM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2019 9:05:20 AM	45319
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2019 9:05:20 AM	45319
Surr: DNOP	95.7	70-130		%Rec	1	6/3/2019 9:05:20 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/3/2019 9:37:48 AM	R60348
Surr: BFB	102	73.8-119		%Rec	1	6/3/2019 9:37:48 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.020		mg/Kg	1	6/3/2019 9:37:48 AM	B60348
Toluene	ND	0.039		mg/Kg	1	6/3/2019 9:37:48 AM	B60348
Ethylbenzene	ND	0.039		mg/Kg	1	6/3/2019 9:37:48 AM	B60348
Xylenes, Total	ND	0.078		mg/Kg	1	6/3/2019 9:37:48 AM	B60348
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	6/3/2019 9:37:48 AM	B60348

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906001**
Date Reported: **6/4/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-9
Project: Largo CS **Collection Date:** 5/31/2019 1:05:00 PM
Lab ID: 1906001-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	310	60		mg/Kg	20	6/3/2019 12:08:10 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**TOM**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/3/2019 9:27:28 AM	45319
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/3/2019 9:27:28 AM	45319
Surr: DNOP	98.6	70-130		%Rec	1	6/3/2019 9:27:28 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	71	4.2		mg/Kg	1	6/3/2019 10:00:27 AM	R60348
Surr: BFB	383	73.8-119	S	%Rec	1	6/3/2019 10:00:27 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.021		mg/Kg	1	6/3/2019 10:00:27 AM	B60348
Toluene	ND	0.042		mg/Kg	1	6/3/2019 10:00:27 AM	B60348
Ethylbenzene	0.12	0.042		mg/Kg	1	6/3/2019 10:00:27 AM	B60348
Xylenes, Total	1.1	0.085		mg/Kg	1	6/3/2019 10:00:27 AM	B60348
Surr: 4-Bromofluorobenzene	120	80-120		%Rec	1	6/3/2019 10:00:27 AM	B60348

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906001**
Date Reported: **6/4/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** SP-10
Project: Largo CS **Collection Date:** 5/31/2019 1:10:00 PM
Lab ID: 1906001-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/1/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	420	60		mg/Kg	20	6/3/2019 12:20:35 PM	45327
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/3/2019 9:49:23 AM	45319
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/3/2019 9:49:23 AM	45319
Surr: DNOP	99.5	70-130		%Rec	1	6/3/2019 9:49:23 AM	45319
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2019 10:23:08 AM	R60348
Surr: BFB	88.9	73.8-119		%Rec	1	6/3/2019 10:23:08 AM	R60348
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/3/2019 10:23:08 AM	B60348
Toluene	ND	0.048		mg/Kg	1	6/3/2019 10:23:08 AM	B60348
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2019 10:23:08 AM	B60348
Xylenes, Total	ND	0.096		mg/Kg	1	6/3/2019 10:23:08 AM	B60348
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	6/3/2019 10:23:08 AM	B60348

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906001**
04-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **MB-45327**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **45327**	RunNo: **60350**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2040927**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45327**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **45327**	RunNo: **60350**							
Prep Date: **6/3/2019**	Analysis Date: **6/3/2019**	SeqNo: **2040928**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906001**
04-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **LCS-45319** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **45319** RunNo: **60335**
Prep Date: **6/3/2019** Analysis Date: **6/3/2019** SeqNo: **2039825** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	63.9	124			
Surr: DNOP	4.4		5.000		87.0	70	130			

Sample ID: **MB-45319** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **45319** RunNo: **60335**
Prep Date: **6/3/2019** Analysis Date: **6/3/2019** SeqNo: **2039826** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906001**
04-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R60348**	RunNo: **60348**
Prep Date:	Analysis Date: **6/3/2019**	SeqNo: **2041035** 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	92.0	80.1	123			
Surr: BFB	1000		1000		105	73.8	119			

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R60348**	RunNo: **60348**
Prep Date:	Analysis Date: **6/3/2019**	SeqNo: **2041038** 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	950		1000		95.3	73.8	119			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906001**
04-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **B60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **B60348** RunNo: **60348**
Prep Date: Analysis Date: **6/3/2019** SeqNo: **2041069** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1906001** RcptNo: 1

Received By: **Desiree Dominguez** **6/1/2019 8:30:00 AM** DD

Completed By: **Desiree Dominguez** **6/1/2019 9:02:32 AM** DD

Reviewed By: ~~HG~~ YG 6/1/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: DAD 6/1/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Not Present			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suit A Aztec NM

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 10 days
☐ Standard ☒ Rush 6-3-19

Project Name: Largo Compressor Station

Project #: 05A1226001

Project Manager: K. Summers

Sampler: C DAponti

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.5 - 0.2°c = 2.3°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906001	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300
5/31/19	1300	S	SP-8	1 4oz Jar	Cool	-001	X	X									X
"	1305	"	SP-9	"	"	-002	"	"									"
"	1310	"	SP-10	"	"	-003	"	"									"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/31/19	1601		Chase Watts		5/31/19	1601
5/31/19	1820	Chase Watts		Courier	6/1/19	8:30

Remarks: PM - Kyle Summers Ensolum
Same Day

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 18, 2019

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1906848

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906848**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-138
Project: Largo Compressor Station **Collection Date:** 6/14/2019 11:00:00 AM
Lab ID: 1906848-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	410	60		mg/Kg	20	6/17/2019 12:01:31 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/17/2019 1:27:08 PM	45616
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/17/2019 1:27:08 PM	45616
Surr: DNOP	108	70-130		%Rec	1	6/17/2019 1:27:08 PM	45616
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg	1	6/17/2019 11:37:09 AM	G60694
Surr: BFB	91.6	73.8-119		%Rec	1	6/17/2019 11:37:09 AM	G60694
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.028		mg/Kg	1	6/17/2019 11:37:09 AM	B60694
Toluene	ND	0.056		mg/Kg	1	6/17/2019 11:37:09 AM	B60694
Ethylbenzene	ND	0.056		mg/Kg	1	6/17/2019 11:37:09 AM	B60694
Xylenes, Total	ND	0.11		mg/Kg	1	6/17/2019 11:37:09 AM	B60694
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	6/17/2019 11:37:09 AM	B60694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **1906848**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-139
Project: Largo Compressor Station **Collection Date:** 6/14/2019 11:05:00 AM
Lab ID: 1906848-002 **Matrix:** MEOH (SOIL) **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	86	60		mg/Kg	20	6/17/2019 12:13:56 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	6/17/2019 1:51:41 PM	45616
Motor Oil Range Organics (MRO)	81	47		mg/Kg	1	6/17/2019 1:51:41 PM	45616
Surr: DNOP	106	70-130		%Rec	1	6/17/2019 1:51:41 PM	45616
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	6/17/2019 12:00:40 PM	G60694
Surr: BFB	89.3	73.8-119		%Rec	1	6/17/2019 12:00:40 PM	G60694
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	6/17/2019 12:00:40 PM	B60694
Toluene	ND	0.044		mg/Kg	1	6/17/2019 12:00:40 PM	B60694
Ethylbenzene	ND	0.044		mg/Kg	1	6/17/2019 12:00:40 PM	B60694
Xylenes, Total	ND	0.088		mg/Kg	1	6/17/2019 12:00:40 PM	B60694
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	6/17/2019 12:00:40 PM	B60694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906848**
Date Reported: **6/18/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** P2-140
Project: Largo Compressor Station **Collection Date:** 6/14/2019 11:10:00 AM
Lab ID: 1906848-003 **Matrix:** MEOH (SOIL) **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	210	60		mg/Kg	20	6/17/2019 12:51:09 PM	45618
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/17/2019 2:16:11 PM	45616
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2019 2:16:11 PM	45616
Surr: DNOP	105	70-130		%Rec	1	6/17/2019 2:16:11 PM	45616
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/17/2019 12:24:06 PM	G60694
Surr: BFB	89.9	73.8-119		%Rec	1	6/17/2019 12:24:06 PM	G60694
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/17/2019 12:24:06 PM	B60694
Toluene	ND	0.046		mg/Kg	1	6/17/2019 12:24:06 PM	B60694
Ethylbenzene	ND	0.046		mg/Kg	1	6/17/2019 12:24:06 PM	B60694
Xylenes, Total	ND	0.093		mg/Kg	1	6/17/2019 12:24:06 PM	B60694
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	6/17/2019 12:24:06 PM	B60694

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906848**
18-Jun-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **MB-45618**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **45618**	RunNo: **60701**							
Prep Date: **6/17/2019**	Analysis Date: **6/17/2019**	SeqNo: **2054613**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-45618**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **45618**	RunNo: **60701**							
Prep Date: **6/17/2019**	Analysis Date: **6/17/2019**	SeqNo: **2054614**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906848**
18-Jun-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **LCS-45616** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **45616** RunNo: **60687**
Prep Date: **6/17/2019** Analysis Date: **6/17/2019** SeqNo: **2053634** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	63.9	124			
Surr: DNOP	5.5		5.000		109	70	130			

Sample ID: **MB-45616** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **45616** RunNo: **60687**
Prep Date: **6/17/2019** Analysis Date: **6/17/2019** SeqNo: **2053635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906848**
18-Jun-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G60694**	RunNo: **60694**
Prep Date:	Analysis Date: **6/17/2019**	SeqNo: **2053941** 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	950		1000		94.6	73.8	119			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G60694**	RunNo: **60694**
Prep Date:	Analysis Date: **6/17/2019**	SeqNo: **2053942** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.6	80.1	123			
Surr: BFB	1100		1000		106	73.8	119			

Sample ID: **MB-45609**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **45609**	RunNo: **60694**
Prep Date: **6/14/2019**	Analysis Date: **6/18/2019**	SeqNo: **2053970** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.4	73.8	119			

Sample ID: **LCS-45609**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **45609**	RunNo: **60694**
Prep Date: **6/14/2019**	Analysis Date: **6/18/2019**	SeqNo: **2053971** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	73.8	119			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906848**
18-Jun-19

Client: ENSOLUM
Project: Largo Compressor Station

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B60694**	RunNo: **60694**
Prep Date:	Analysis Date: **6/17/2019**	SeqNo: **2053990** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B60694**	RunNo: **60694**
Prep Date:	Analysis Date: **6/17/2019**	SeqNo: **2053991** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.8	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: **MB-45609**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **45609**	RunNo: **60694**
Prep Date: **6/14/2019**	Analysis Date: **6/18/2019**	SeqNo: **2054019** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: **LCS-45609**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **45609**	RunNo: **60694**
Prep Date: **6/14/2019**	Analysis Date: **6/18/2019**	SeqNo: **2054020** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1906848** RcptNo: **1**

Received By: **Thom Maybee** **6/15/2019 10:15:00 AM**

Completed By: **Yazmine Garduno** **6/17/2019 7:58:19 AM** Yazmine Garduno

Reviewed By: DAD 6/17/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 6/17/19 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum

Mailing Address: 606 S Rio Grande Suite A Aztec 87410

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 100%
☐ Standard ☒ Rush 6-17-19

Project Name: Largo Compressor Station

Project #: 05A 1226001

Project Manager: K. Summers

Sampler: C DAppanti

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.1+0.3=4.4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906848	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300
6/14/19	1100	S	~~BG~~ P2-138	1 4oz Jar	Cool	-001	X	X									X
"	1105	"	P2-139	"	"	-002	"	"									"
"	1110	"	P2-140	"	"		"	"									"

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/14/19	1248				6/14/19	1248
6/14/19	1819				6-15-19	10.15

Remarks: Pm Ensolum / K. Summers

(Same Day)

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.

ENSOLUM

APPENDIX F3

Soil Characterization (SVE/AS Installation Area 1)
Laboratory Data Sheets
& Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 13, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station Area 1 OrderNo.: 1804466

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/10/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-1-18.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/5/2018 12:03:00 PM
Lab ID: 1804466-001 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/12/2018 5:46:31 PM	37536
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/12/2018 5:46:31 PM	37536
Surr: DNOP	101	70-130		%Rec	1	4/12/2018 5:46:31 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	630	46		mg/Kg	10	4/11/2018 11:14:42 AM	37525
Surr: BFB	109	15-316		%Rec	10	4/11/2018 11:14:42 AM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	3.3	0.23		mg/Kg	10	4/11/2018 11:14:42 AM	37525
Toluene	ND	0.46		mg/Kg	10	4/11/2018 11:14:42 AM	37525
Ethylbenzene	0.75	0.46		mg/Kg	10	4/11/2018 11:14:42 AM	37525
Xylenes, Total	6.7	0.93		mg/Kg	10	4/11/2018 11:14:42 AM	37525
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	10	4/11/2018 11:14:42 AM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-1-20.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/5/2018 12:09:00 PM
Lab ID: 1804466-002 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	13	9.1		mg/Kg	1	4/12/2018 6:08:36 PM	37536
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/12/2018 6:08:36 PM	37536
Surr: DNOP	103	70-130		%Rec	1	4/12/2018 6:08:36 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1900	100		mg/Kg	20	4/11/2018 11:38:38 AM	37525
Surr: BFB	154	15-316		%Rec	20	4/11/2018 11:38:38 AM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4.3	0.50		mg/Kg	20	4/11/2018 11:38:38 AM	37525
Toluene	ND	1.0		mg/Kg	20	4/11/2018 11:38:38 AM	37525
Ethylbenzene	3.0	1.0		mg/Kg	20	4/11/2018 11:38:38 AM	37525
Xylenes, Total	9.6	2.0		mg/Kg	20	4/11/2018 11:38:38 AM	37525
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	20	4/11/2018 11:38:38 AM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-2-19.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 1:27:00 PM
Lab ID: 1804466-003 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	18	9.0		mg/Kg	1	4/12/2018 6:30:45 PM	37536
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/12/2018 6:30:45 PM	37536
Surr: DNOP	97.6	70-130		%Rec	1	4/12/2018 6:30:45 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1300	98		mg/Kg	20	4/11/2018 12:02:33 PM	37525
Surr: BFB	168	15-316		%Rec	20	4/11/2018 12:02:33 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	2.4	0.49		mg/Kg	20	4/11/2018 12:02:33 PM	37525
Toluene	ND	0.98		mg/Kg	20	4/11/2018 12:02:33 PM	37525
Ethylbenzene	3.6	0.98		mg/Kg	20	4/11/2018 12:02:33 PM	37525
Xylenes, Total	38	2.0		mg/Kg	20	4/11/2018 12:02:33 PM	37525
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	20	4/11/2018 12:02:33 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-2-20.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 1:33:00 PM
Lab ID: 1804466-004 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/12/2018 6:52:37 PM	37536
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/12/2018 6:52:37 PM	37536
Surr: DNOP	95.4	70-130		%Rec	1	4/12/2018 6:52:37 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	110	4.7		mg/Kg	1	4/11/2018 2:48:36 PM	37525
Surr: BFB	221	15-316		%Rec	1	4/11/2018 2:48:36 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.30	0.024		mg/Kg	1	4/11/2018 2:48:36 PM	37525
Toluene	ND	0.047		mg/Kg	1	4/11/2018 2:48:36 PM	37525
Ethylbenzene	0.28	0.047		mg/Kg	1	4/11/2018 2:48:36 PM	37525
Xylenes, Total	2.9	0.094		mg/Kg	1	4/11/2018 2:48:36 PM	37525
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	4/11/2018 2:48:36 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-3-20.5'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 2:55:00 PM
Lab ID: 1804466-005 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/12/2018 7:14:52 PM	37536
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/12/2018 7:14:52 PM	37536
Surr: DNOP	98.1	70-130		%Rec	1	4/12/2018 7:14:52 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	220	4.8		mg/Kg	1	4/11/2018 3:12:20 PM	37525
Surr: BFB	364	15-316	S	%Rec	1	4/11/2018 3:12:20 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.12	0.024		mg/Kg	1	4/11/2018 3:12:20 PM	37525
Toluene	ND	0.048		mg/Kg	1	4/11/2018 3:12:20 PM	37525
Ethylbenzene	0.32	0.048		mg/Kg	1	4/11/2018 3:12:20 PM	37525
Xylenes, Total	3.1	0.097		mg/Kg	1	4/11/2018 3:12:20 PM	37525
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	1	4/11/2018 3:12:20 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-4-19.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 8:50:00 AM
Lab ID: 1804466-006 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/12/2018 7:36:47 PM	37536
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/12/2018 7:36:47 PM	37536
Surr: DNOP	97.1	70-130		%Rec	1	4/12/2018 7:36:47 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	870	47		mg/Kg	10	4/11/2018 5:58:07 PM	37525
Surr: BFB	129	15-316		%Rec	10	4/11/2018 5:58:07 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	4.5	0.024		mg/Kg	1	4/11/2018 3:36:04 PM	37525
Toluene	ND	0.047		mg/Kg	1	4/11/2018 3:36:04 PM	37525
Ethylbenzene	1.4	0.047		mg/Kg	1	4/11/2018 3:36:04 PM	37525
Xylenes, Total	13	0.94		mg/Kg	10	4/11/2018 5:58:07 PM	37525
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	10	4/11/2018 5:58:07 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-5-19.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 10:20:00 AM
Lab ID: 1804466-007 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	7.5		mg/Kg	1	4/12/2018 7:58:58 PM	37536
Motor Oil Range Organics (MRO)	ND	38		mg/Kg	1	4/12/2018 7:58:58 PM	37536
Surr: DNOP	98.2	70-130		%Rec	1	4/12/2018 7:58:58 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	13	4.6		mg/Kg	1	4/11/2018 12:26:13 PM	37525
Surr: BFB	99.3	15-316		%Rec	1	4/11/2018 12:26:13 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2018 12:26:13 PM	37525
Toluene	ND	0.046		mg/Kg	1	4/11/2018 12:26:13 PM	37525
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2018 12:26:13 PM	37525
Xylenes, Total	0.13	0.093		mg/Kg	1	4/11/2018 12:26:13 PM	37525
Surr: 4-Bromofluorobenzene	96.0	80-120		%Rec	1	4/11/2018 12:26:13 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-6-20.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 12:25:00 PM
Lab ID: 1804466-008 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	4/12/2018 8:20:55 PM	37536
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	4/12/2018 8:20:55 PM	37536
Surr: DNOP	95.1	70-130		%Rec	1	4/12/2018 8:20:55 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/11/2018 3:59:48 PM	37525
Surr: BFB	97.0	15-316		%Rec	1	4/11/2018 3:59:48 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2018 3:59:48 PM	37525
Toluene	ND	0.046		mg/Kg	1	4/11/2018 3:59:48 PM	37525
Ethylbenzene	ND	0.046		mg/Kg	1	4/11/2018 3:59:48 PM	37525
Xylenes, Total	ND	0.093		mg/Kg	1	4/11/2018 3:59:48 PM	37525
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	4/11/2018 3:59:48 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** SVE-7-19.0
Project: Largo Compressor Station Area 1 **Collection Date:** 4/4/2018 10:00:00 AM
Lab ID: 1804466-009 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	4/12/2018 8:43:01 PM	37536
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	4/12/2018 8:43:01 PM	37536
Surr: DNOP	93.6	70-130		%Rec	1	4/12/2018 8:43:01 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2018 4:23:28 PM	37525
Surr: BFB	95.6	15-316		%Rec	1	4/11/2018 4:23:28 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2018 4:23:28 PM	37525
Toluene	ND	0.048		mg/Kg	1	4/11/2018 4:23:28 PM	37525
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2018 4:23:28 PM	37525
Xylenes, Total	ND	0.097		mg/Kg	1	4/11/2018 4:23:28 PM	37525
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	4/11/2018 4:23:28 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** AS-1-21.5'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/3/2018 2:03:00 PM
Lab ID: 1804466-010 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/12/2018 9:04:55 PM	37536
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/12/2018 9:04:55 PM	37536
Surr: DNOP	99.1	70-130		%Rec	1	4/12/2018 9:04:55 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/11/2018 4:47:07 PM	37525
Surr: BFB	103	15-316		%Rec	1	4/11/2018 4:47:07 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	4/11/2018 4:47:07 PM	37525
Toluene	ND	0.048		mg/Kg	1	4/11/2018 4:47:07 PM	37525
Ethylbenzene	ND	0.048		mg/Kg	1	4/11/2018 4:47:07 PM	37525
Xylenes, Total	ND	0.096		mg/Kg	1	4/11/2018 4:47:07 PM	37525
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/11/2018 4:47:07 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** AS-5-21.0'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/3/2018 12:53:00 PM
Lab ID: 1804466-011 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	4/12/2018 9:26:54 PM	37536
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/12/2018 9:26:54 PM	37536
Surr: DNOP	97.4	70-130		%Rec	1	4/12/2018 9:26:54 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	48	4.8		mg/Kg	1	4/11/2018 5:10:44 PM	37525
Surr: BFB	168	15-316		%Rec	1	4/11/2018 5:10:44 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.044	0.024		mg/Kg	1	4/11/2018 5:10:44 PM	37525
Toluene	ND	0.048		mg/Kg	1	4/11/2018 5:10:44 PM	37525
Ethylbenzene	0.055	0.048		mg/Kg	1	4/11/2018 5:10:44 PM	37525
Xylenes, Total	0.40	0.095		mg/Kg	1	4/11/2018 5:10:44 PM	37525
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	4/11/2018 5:10:44 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1804466**
Date Reported: **4/13/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** AS-6-21.5'
Project: Largo Compressor Station Area 1 **Collection Date:** 4/3/2018 3:25:00 PM
Lab ID: 1804466-012 **Matrix:** SOIL **Received Date:** 4/10/2018 7:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/12/2018 9:48:41 PM	37536
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/12/2018 9:48:41 PM	37536
Surr: DNOP	97.9	70-130		%Rec	1	4/12/2018 9:48:41 PM	37536
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/11/2018 5:34:27 PM	37525
Surr: BFB	96.1	15-316		%Rec	1	4/11/2018 5:34:27 PM	37525
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.39	0.025		mg/Kg	1	4/11/2018 5:34:27 PM	37525
Toluene	ND	0.050		mg/Kg	1	4/11/2018 5:34:27 PM	37525
Ethylbenzene	ND	0.050		mg/Kg	1	4/11/2018 5:34:27 PM	37525
Xylenes, Total	ND	0.099		mg/Kg	1	4/11/2018 5:34:27 PM	37525
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	4/11/2018 5:34:27 PM	37525

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804466**

13-Apr-18

Client: Apex Titan, Inc.

Project: Largo Compressor Station Area 1

Sample ID	**LCS-37536**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37536**	RunNo:	**50494**					
Prep Date:	**4/11/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637376**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.2		5.000		83.5	70	130			

Sample ID	**MB-37536**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37536**	RunNo:	**50494**					
Prep Date:	**4/11/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637377**	Units:	**mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	70	130			

Sample ID	**LCS-37568**	SampType:	**LCS**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**37568**	RunNo:	**50494**					
Prep Date:	**4/12/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637385**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		85.0	70	130			

Sample ID	**MB-37568**	SampType:	**MBLK**	TestCode:	**EPA Method 8015M/D: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**37568**	RunNo:	**50494**					
Prep Date:	**4/12/2018**	Analysis Date:	**4/12/2018**	SeqNo:	**1637386**	Units:	**%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		93.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804466**
13-Apr-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station Area 1

Sample ID	**MB-37525**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**37525**	RunNo:	**50469**
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637088** 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	970		1000		97.3	15	316			

Sample ID	**LCS-37525**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**37525**	RunNo:	**50469**
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637089** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	75.9	131			
Surr: BFB	1100		1000		108	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1804466**
13-Apr-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station Area 1

Sample ID	**MB-37525**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637126**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	80	120			

Sample ID	**LCS-37525**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**37525**	RunNo:	**50469**					
Prep Date:	**4/10/2018**	Analysis Date:	**4/11/2018**	SeqNo:	**1637127**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	77.3	128			
Toluene	0.93	0.050	1.000	0	93.2	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	94.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1804465 RcptNo: 1

Received By: Anne Thorne 4/10/2018 7:20:00 AM

Completed By: Anne Thorne 4/10/2018 8:39:52 AM

Reviewed By: SMO 4/10/18

LB: ENM

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐ # of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐ Adjusted?
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐ Checked by:

ENM 4/10/18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande St. A
Aztec, NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A Freeman
Phone: 505 345 3975
PO/SO #: 725040112154-A

Sampler's Name: Sam Crawford
Sampler's Signature:

Proj. No. 725040112154-A
Project Name: Largo Compressor Station - Area 1
No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021 / TPH GRO/DRO/MRO (SCIS)

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0
1 2 3 4 5
Page 1 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	4.5.18	1203		X	SVE-1 - 18.0'	-	-				X		1804466001
S	4.5.18	1209		X	SVE-1 - 20.0'	-	-				X		002
S	4.4.18	1327		X	SVE-2 - 19.0						X		003
S	4.4.18	1353		X	SVE-2 - 20.0						X		004
S	4.4.18	1455		X	SVE-3 - 20.5						X		005
S	4.4.18	850		X	SVE-4 - 19.0						X		006
S	4.4.18	1020		X	SVE-5 - 19.0						X		007
S	4.4.18	1225		X	SVE-6 - 20.0						X		008
S	4.4.18	1000		X	SVE-7 - 19.0						X		009
				X							X		~~010~~

04/10/18

Turn around time: [X] Normal [ ] 25% Rush [ ] 50% Rush [ ] 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4.5.18	1300		4-5-18	1300
	4-5-18	1550		4/9/18	1550
	4/9/18	1824		04/10/18	0720

NOTES: ~~Apex~~ B:1 to Apex (Corp Note)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Ste A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505 345 3975

PO/SO #: 725240112154-4

Sampler's Name: Sam Cramer

Sampler's Signature

Proj. No.: 725040112154.4

Project Name: Largo Congress Station Area-1

No/Type of Containers

ANALYSIS REQUESTED: BTEX Soil; TPH GRO/DRO/MRO

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.0

1	2	3	4	5

Page 2 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	4.3.18	1403		X	AS-1-21.5	-	-				X		1804466-01
S	4.3.18	1253		X	AS-5-21.0	-	-				X		~~02~~ 01
S	4.3.18	1525		X	AS-6-21.5	-	-				X		~~03~~ 02
S													
S													
S													
S													
S													
S													

Turn around time: ☑ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	4.5.18	1305		4-5-18	1305
	4.9.18	1550		4/9/18	1550
	4/9/18	1824		04/10/18	0720

NOTES: Bill to APA (Corp Rate)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Clear Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

ENSOLUM

APPENDIX F4

2019 and 2020 Groundwater Monitoring Laboratory Data Sheets & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 21, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1906853

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/15/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-88
Project: Largo CS
Collection Date: 6/13/2019 10:15:00 AM
Lab ID: 1906853-001 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/19/2019 9:35:58 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 9:35:58 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 9:35:58 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 9:35:58 PM	R60797
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	6/19/2019 9:35:58 PM	R60797
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/19/2019 9:35:58 PM	R60797
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/19/2019 9:35:58 PM	R60797
Surr: Toluene-d8	96.6	70-130		%Rec	1	6/19/2019 9:35:58 PM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-89
Project: Largo CS
Collection Date: 6/13/2019 11:10:00 AM
Lab ID: 1906853-002 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/19/2019 10:04:39 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 10:04:39 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 10:04:39 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 10:04:39 PM	R60797
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	6/19/2019 10:04:39 PM	R60797
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/19/2019 10:04:39 PM	R60797
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/19/2019 10:04:39 PM	R60797
Surr: Toluene-d8	96.6	70-130		%Rec	1	6/19/2019 10:04:39 PM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-90
Project: Largo CS
Collection Date: 6/13/2019 11:55:00 AM
Lab ID: 1906853-003 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/19/2019 10:33:19 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 10:33:19 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 10:33:19 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 10:33:19 PM	R60797
Surr: 1,2-Dichloroethane-d4	95.6	70-130		%Rec	1	6/19/2019 10:33:19 PM	R60797
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/19/2019 10:33:19 PM	R60797
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/19/2019 10:33:19 PM	R60797
Surr: Toluene-d8	96.2	70-130		%Rec	1	6/19/2019 10:33:19 PM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-14
Project: Largo CS **Collection Date:** 6/13/2019 12:45:00 PM
Lab ID: 1906853-004 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/19/2019 11:02:11 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 11:02:11 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 11:02:11 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 11:02:11 PM	R60797
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%Rec	1	6/19/2019 11:02:11 PM	R60797
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/19/2019 11:02:11 PM	R60797
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/19/2019 11:02:11 PM	R60797
Surr: Toluene-d8	95.8	70-130		%Rec	1	6/19/2019 11:02:11 PM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-15
Project: Largo CS
Collection Date: 6/13/2019 1:35:00 PM
Lab ID: 1906853-005 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/19/2019 11:31:09 PM	R60797
Toluene	ND	1.0		µg/L	1	6/19/2019 11:31:09 PM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/19/2019 11:31:09 PM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/19/2019 11:31:09 PM	R60797
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	6/19/2019 11:31:09 PM	R60797
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	6/19/2019 11:31:09 PM	R60797
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/19/2019 11:31:09 PM	R60797
Surr: Toluene-d8	94.1	70-130		%Rec	1	6/19/2019 11:31:09 PM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-3R
Project: Largo CS
Collection Date: 6/13/2019 2:25:00 PM
Lab ID: 1906853-006 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019	R60797
Toluene	ND	1.0		µg/L	1	6/20/2019	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019	R60797
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	6/20/2019	R60797
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	6/20/2019	R60797
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/20/2019	R60797
Surr: Toluene-d8	94.9	70-130		%Rec	1	6/20/2019	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-8
Project: Largo CS
Collection Date: 6/13/2019 3:15:00 PM
Lab ID: 1906853-007 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019 12:28:38 AM	R60797
Toluene	ND	1.0		µg/L	1	6/20/2019 12:28:38 AM	R60797
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 12:28:38 AM	R60797
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 12:28:38 AM	R60797
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	6/20/2019 12:28:38 AM	R60797
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/20/2019 12:28:38 AM	R60797
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/20/2019 12:28:38 AM	R60797
Surr: Toluene-d8	98.8	70-130		%Rec	1	6/20/2019 12:28:38 AM	R60797

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 6/14/2019 9:15:00 AM
Lab ID: 1906853-008 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	6.3	1.0		µg/L	1	6/20/2019 3:09:26 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 3:09:26 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 3:09:26 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 3:09:26 PM	SL60806
Surr: 1,2-Dichloroethane-d4	93.1	70-130		%Rec	1	6/20/2019 3:09:26 PM	SL60806
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/20/2019 3:09:26 PM	SL60806
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/20/2019 3:09:26 PM	SL60806
Surr: Toluene-d8	97.8	70-130		%Rec	1	6/20/2019 3:09:26 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Largo CS
Collection Date: 6/14/2019 10:10:00 AM
Lab ID: 1906853-009 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019 3:38:12 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 3:38:12 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 3:38:12 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 3:38:12 PM	SL60806
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	6/20/2019 3:38:12 PM	SL60806
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	6/20/2019 3:38:12 PM	SL60806
Surr: Dibromofluoromethane	110	70-130		%Rec	1	6/20/2019 3:38:12 PM	SL60806
Surr: Toluene-d8	95.7	70-130		%Rec	1	6/20/2019 3:38:12 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Largo CS
Collection Date: 6/14/2019 10:55:00 AM
Lab ID: 1906853-010 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019 4:06:59 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 4:06:59 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 4:06:59 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 4:06:59 PM	SL60806
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	6/20/2019 4:06:59 PM	SL60806
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/20/2019 4:06:59 PM	SL60806
Surr: Dibromofluoromethane	108	70-130		%Rec	1	6/20/2019 4:06:59 PM	SL60806
Surr: Toluene-d8	96.3	70-130		%Rec	1	6/20/2019 4:06:59 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-13
Project: Largo CS **Collection Date:** 6/14/2019 11:45:00 AM
Lab ID: 1906853-011 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019 4:35:47 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 4:35:47 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 4:35:47 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 4:35:47 PM	SL60806
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	6/20/2019 4:35:47 PM	SL60806
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/20/2019 4:35:47 PM	SL60806
Surr: Dibromofluoromethane	109	70-130		%Rec	1	6/20/2019 4:35:47 PM	SL60806
Surr: Toluene-d8	95.9	70-130		%Rec	1	6/20/2019 4:35:47 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-7
Project: Largo CS
Collection Date: 6/14/2019 12:35:00 PM
Lab ID: 1906853-012 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	17	1.0		µg/L	1	6/20/2019 5:04:37 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 5:04:37 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 5:04:37 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 5:04:37 PM	SL60806
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	6/20/2019 5:04:37 PM	SL60806
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	6/20/2019 5:04:37 PM	SL60806
Surr: Dibromofluoromethane	107	70-130		%Rec	1	6/20/2019 5:04:37 PM	SL60806
Surr: Toluene-d8	96.9	70-130		%Rec	1	6/20/2019 5:04:37 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906853**
Date Reported: **6/21/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-40R
Project: Largo CS
Collection Date: 6/14/2019 1:35:00 PM
Lab ID: 1906853-013 **Matrix:** AQUEOUS **Received Date:** 6/15/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/20/2019 5:33:25 PM	SL60806
Toluene	ND	1.0		µg/L	1	6/20/2019 5:33:25 PM	SL60806
Ethylbenzene	ND	1.0		µg/L	1	6/20/2019 5:33:25 PM	SL60806
Xylenes, Total	ND	1.5		µg/L	1	6/20/2019 5:33:25 PM	SL60806
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	1	6/20/2019 5:33:25 PM	SL60806
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	6/20/2019 5:33:25 PM	SL60806
Surr: Dibromofluoromethane	109	70-130		%Rec	1	6/20/2019 5:33:25 PM	SL60806
Surr: Toluene-d8	96.8	70-130		%Rec	1	6/20/2019 5:33:25 PM	SL60806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906853**
21-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **R60797** RunNo: **60797**
Prep Date: Analysis Date: **6/19/2019** SeqNo: **2058061** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.9	70	130			
Toluene	18	1.0	20.00	0	87.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.3		10.00		92.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.3		10.00		92.8	70	130			

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **R60797** RunNo: **60797**
Prep Date: Analysis Date: **6/19/2019** SeqNo: **2058075** 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	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.4	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	11		10.00		105	70	130			
Surr: Toluene-d8	9.6		10.00		96.0	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **SL60806** RunNo: **60806**
Prep Date: Analysis Date: **6/20/2019** SeqNo: **2058371** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	85.8	70	130			
Toluene	17	1.0	20.00	0	86.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.1	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.4		10.00		93.8	70	130			

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL60806** RunNo: **60806**
Prep Date: Analysis Date: **6/20/2019** SeqNo: **2058382** 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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906853**
21-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **rb** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL60806** RunNo: **60806**
Prep Date: Analysis Date: **6/20/2019** SeqNo: **2058382** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.0	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		98.6	70	130			
Surr: Dibromofluoromethane	11		10.00		106	70	130			
Surr: Toluene-d8	9.6		10.00		96.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1906853** RcptNo: **1**

Received By: **Thom Maybee** **6/15/2019 10:15:00 AM**

Completed By: **Leah Baca** **6/17/2019 8:40:24 AM** Leah Baca

Reviewed By: ENM 6/17/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐ 10
10. Were any sample containers received broken? Yes ☐ No ☑

    # of preserved bottles checked for pH: 6/17/19 (<2 or >12 unless noted)

    Adjusted?
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

    Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

    Person Notified: _____ Date _____

    By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

    Regarding: _____

    Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 6016 S Broadway, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksummers

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: ksummers

Sampler: RDeechilly

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.1 +0.3 = 4.4C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906853	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/13/19	1015	W	MW-88	3 40mL VOA	$HgCl_2$	-001	X									
6/13/19	1110	W	MW-89	3 40mL VOA	$HgCl_2$	-002	X									
6/13/19	1155	W	MW-90	3 40mL VOA	$HgCl_2$	-003	X									
6/13/19	1245	W	MW-14	3 40mL VOA	$HgCl_2$	-004	X									
6/13/19	1335	W	MW-15	3 40mL VOA	$HgCl_2$	-005	X									
6/13/19	1425	W	MW-3R	3 40mL VOA	$HgCl_2$	-006	X									
6/13/19	1515	W	MW-8	3 40mL VOA	$HgCl_2$	-007	X									
6/14/19	915	W	MW-16	3 40mL VOA	$HgCl_2$	-008	X									
6/14/19	1010	W	MW-9	3 40mL VOA	$HgCl_2$	-009	X									
6/14/19	1055	W	MW-6	3 40mL VOA	$HgCl_2$	-010	X									
6/14/19	1145	W	MW-13	3 40mL VOA	$HgCl_2$	-011	X									
6/14/19	1235	W	MW-7	3 40mL VOA	$HgCl_2$	-012	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/14/19	1620				6/14/19	1620
6/14/19	1849				6-15-19	10.15

Remarks: Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 6006 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: OSA1226001

Project Manager: KSummers

Sampler: RDeechilly

On Ice: ☒ Yes ☑ No

# of Coolers: 1

Cooler Temp(including CF): 4.1+0.3=4.4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906853	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/14/19	1335	W	MW-40R	3 40mL VOA	HgCl2	-013	X									

NFS

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/14/19	1620		Christine Walker		6/14/19	1620
6/14/19	1819	Christine Walker			6-15-19	10.15

Remarks:
Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 25, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 1906B02

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 15 sample(s) on 6/20/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-50
Project: Largo CS
Collection Date: 6/18/2019 10:10:00 AM
Lab ID: 1906B02-001 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 5:25:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 5:25:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 5:25:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 5:25:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 5:25:00 PM	SL60881
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	6/24/2019 5:25:00 PM	SL60881
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/24/2019 5:25:00 PM	SL60881
Surr: Toluene-d8	99.3	70-130		%Rec	1	6/24/2019 5:25:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-52
Project: Largo CS
Collection Date: 6/18/2019 11:05:00 AM
Lab ID: 1906B02-002 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 5:49:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 5:49:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 5:49:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 5:49:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/24/2019 5:49:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/24/2019 5:49:00 PM	SL60881
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/24/2019 5:49:00 PM	SL60881
Surr: Toluene-d8	98.3	70-130		%Rec	1	6/24/2019 5:49:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-39
Project: Largo CS
Collection Date: 6/18/2019 12:00:00 PM
Lab ID: 1906B02-003 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 6:14:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 6:14:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 6:14:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 6:14:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 6:14:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	6/24/2019 6:14:00 PM	SL60881
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/24/2019 6:14:00 PM	SL60881
Surr: Toluene-d8	99.8	70-130		%Rec	1	6/24/2019 6:14:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-51
Project: Largo CS
Collection Date: 6/18/2019 1:00:00 PM
Lab ID: 1906B02-004 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 6:38:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 6:38:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 6:38:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 6:38:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 6:38:00 PM	SL60881
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	6/24/2019 6:38:00 PM	SL60881
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/24/2019 6:38:00 PM	SL60881
Surr: Toluene-d8	100	70-130		%Rec	1	6/24/2019 6:38:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-41
Project: Largo CS
Collection Date: 6/18/2019 2:00:00 PM
Lab ID: 1906B02-005 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 7:02:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 7:02:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 7:02:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 7:02:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 7:02:00 PM	SL60881
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/24/2019 7:02:00 PM	SL60881
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/24/2019 7:02:00 PM	SL60881
Surr: Toluene-d8	98.0	70-130		%Rec	1	6/24/2019 7:02:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-43
Project: Largo CS
Collection Date: 6/18/2019 2:50:00 PM
Lab ID: 1906B02-006 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 7:25:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 7:25:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 7:25:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 7:25:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 7:25:00 PM	SL60881
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/24/2019 7:25:00 PM	SL60881
Surr: Dibromofluoromethane	106	70-130		%Rec	1	6/24/2019 7:25:00 PM	SL60881
Surr: Toluene-d8	98.5	70-130		%Rec	1	6/24/2019 7:25:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-32
Project: Largo CS
Collection Date: 6/18/2019 3:30:00 PM
Lab ID: 1906B02-007 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 7:49:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 7:49:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 7:49:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 7:49:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	6/24/2019 7:49:00 PM	SL60881
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	6/24/2019 7:49:00 PM	SL60881
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/24/2019 7:49:00 PM	SL60881
Surr: Toluene-d8	98.2	70-130		%Rec	1	6/24/2019 7:49:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-34
Project: Largo CS
Collection Date: 6/19/2019 9:00:00 AM
Lab ID: 1906B02-008 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 8:13:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 8:13:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 8:13:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 8:13:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	6/24/2019 8:13:00 PM	SL60881
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	6/24/2019 8:13:00 PM	SL60881
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/24/2019 8:13:00 PM	SL60881
Surr: Toluene-d8	99.0	70-130		%Rec	1	6/24/2019 8:13:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-75
Project: Largo CS
Collection Date: 6/19/2019 9:50:00 AM
Lab ID: 1906B02-009 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 8:37:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 8:37:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 8:37:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 8:37:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/24/2019 8:37:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	6/24/2019 8:37:00 PM	SL60881
Surr: Dibromofluoromethane	104	70-130		%Rec	1	6/24/2019 8:37:00 PM	SL60881
Surr: Toluene-d8	97.8	70-130		%Rec	1	6/24/2019 8:37:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-83
Project: Largo CS
Collection Date: 6/19/2019 10:35:00 AM
Lab ID: 1906B02-010 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 9:01:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 9:01:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 9:01:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 9:01:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/24/2019 9:01:00 PM	SL60881
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/24/2019 9:01:00 PM	SL60881
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/24/2019 9:01:00 PM	SL60881
Surr: Toluene-d8	99.4	70-130		%Rec	1	6/24/2019 9:01:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-76
Project: Largo CS
Collection Date: 6/19/2019 11:35:00 AM
Lab ID: 1906B02-011 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 9:25:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 9:25:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 9:25:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 9:25:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/24/2019 9:25:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	6/24/2019 9:25:00 PM	SL60881
Surr: Dibromofluoromethane	103	70-130		%Rec	1	6/24/2019 9:25:00 PM	SL60881
Surr: Toluene-d8	98.2	70-130		%Rec	1	6/24/2019 9:25:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-77
Project: Largo CS
Collection Date: 6/19/2019 12:35:00 PM
Lab ID: 1906B02-012 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 9:49:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 9:49:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 9:49:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 9:49:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%Rec	1	6/24/2019 9:49:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/24/2019 9:49:00 PM	SL60881
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/24/2019 9:49:00 PM	SL60881
Surr: Toluene-d8	98.4	70-130		%Rec	1	6/24/2019 9:49:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-80
Project: Largo CS
Collection Date: 6/19/2019 1:25:00 PM
Lab ID: 1906B02-013 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 10:13:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 10:13:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 10:13:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 10:13:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	6/24/2019 10:13:00 PM	SL60881
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	6/24/2019 10:13:00 PM	SL60881
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/24/2019 10:13:00 PM	SL60881
Surr: Toluene-d8	99.3	70-130		%Rec	1	6/24/2019 10:13:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-79
Project: Largo CS
Collection Date: 6/19/2019 2:25:00 PM
Lab ID: 1906B02-014 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 10:37:00 PM	SL60881
Toluene	ND	1.0		µg/L	1	6/24/2019 10:37:00 PM	SL60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 10:37:00 PM	SL60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 10:37:00 PM	SL60881
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/24/2019 10:37:00 PM	SL60881
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	6/24/2019 10:37:00 PM	SL60881
Surr: Dibromofluoromethane	102	70-130		%Rec	1	6/24/2019 10:37:00 PM	SL60881
Surr: Toluene-d8	97.3	70-130		%Rec	1	6/24/2019 10:37:00 PM	SL60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B02**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-38
Project: Largo CS
Collection Date: 6/19/2019 3:10:00 PM
Lab ID: 1906B02-015 **Matrix:** AQUEOUS **Received Date:** 6/20/2019 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/24/2019 11:01:00 PM	B60881
Toluene	ND	1.0		µg/L	1	6/24/2019 11:01:00 PM	B60881
Ethylbenzene	ND	1.0		µg/L	1	6/24/2019 11:01:00 PM	B60881
Xylenes, Total	ND	1.5		µg/L	1	6/24/2019 11:01:00 PM	B60881
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/24/2019 11:01:00 PM	B60881
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	6/24/2019 11:01:00 PM	B60881
Surr: Dibromofluoromethane	105	70-130		%Rec	1	6/24/2019 11:01:00 PM	B60881
Surr: Toluene-d8	99.3	70-130		%Rec	1	6/24/2019 11:01:00 PM	B60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B02**
25-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **B60881**	RunNo: **60881**
Prep Date:	Analysis Date: **6/25/2019**	SeqNo: **2061105** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.8	70	130			
Toluene	20	1.0	20.00	0	99.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.5	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **RB2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **B60881**	RunNo: **60881**
Prep Date:	Analysis Date: **6/25/2019**	SeqNo: **2061106** 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	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.5	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130			
Surr: Dibromofluoromethane	10		10.00		99.6	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Sample ID: **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW**	Batch ID: **SL60881**	RunNo: **60881**
Prep Date:	Analysis Date: **6/24/2019**	SeqNo: **2061808** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.0	70	130			
Toluene	20	1.0	20.00	0	98.1	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.9	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.0	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID: **RB**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **SL60881**	RunNo: **60881**
Prep Date:	Analysis Date: **6/24/2019**	SeqNo: **2061809** 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								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B02**
25-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **RB** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL60881** RunNo: **60881**
Prep Date: Analysis Date: **6/24/2019** SeqNo: **2061809** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.6	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		93.7	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.9	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1906B02** RcptNo: 1

Received By: **Jevon Campisi** **6/20/2019 9:15:00 AM** Jevon Campisi

Completed By: **Yazmine Garduno** **6/20/2019 2:07:48 PM** Yazmine Garduno

Reviewed By: DAD 6/20/19

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

TMM 6-20-19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 6016 S Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDeechilly

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.8°C - 0.4 = 0.4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906B02	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/18/19	1010	W	MW-50	3 40mL VOA	$HgCl_2$	-001	X									
6/18/19	1105	W	MW-52	3 40mL VOA	$HgCl_2$	-002	X									
6/18/19	1200	W	MW-39	3 40mL VOA	$HgCl_2$	-003	X									
6/18/19	1300	W	MW-51	3 40mL VOA	$HgCl_2$	-004	X									
6/18/19	1400	W	MW-41	3 40mL VOA	$HgCl_2$	-005	X									
6/18/19	1450	W	MW-43	3 40mL VOA	$HgCl_2$	-006	X									
6/18/19	1530	W	MW-32	3 40mL VOA	$HgCl_2$	-007	X									
6/19/19	900	W	MW-34	3 40mL VOA	$HgCl_2$	-008	X									
6/19/19	950	W	MW-75	3 40mL VOA	$HgCl_2$	-009	X									
6/19/19	1035	W	MW-83	3 40mL VOA	$HgCl_2$	-010	X									
6/19/19	1135	W	MW-76	3 40mL VOA	$HgCl_2$	-011	X									
6/19/19	1235	W	MW-77	3 40mL VOA	$HgCl_2$	-012	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/19/19	1720				6/19/19	1720
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/19/19	1806			Courier	6-20-19	9:1

Remarks: Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S Rio Grande, Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDuechilly

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.8°C - 0.4CF = 0.4°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Analysis Request
6/19/19	1325	W	MW-80	3 40mL VOA	$HgCl_2$	-013	X										
6/19/19	1425	W	MW-79	3 40mL VOA	$HgCl_2$	-014	X										
6/19/19	1510	W	MW-38	3 40mL VOA	$HgCl_2$	-015	X										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/19/19	1720				6/19/19	1720
6/19/19	1806			Courier	6-20-19	9:15

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 25, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 1906B59

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1906B59**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-49
Project: Largo CS
Collection Date: 6/20/2019 9:20:00 AM
Lab ID: 1906B59-001 **Matrix:** AQUEOUS **Received Date:** 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/25/2019 1:50:00 AM	B60881
Toluene	ND	1.0		µg/L	1	6/25/2019 1:50:00 AM	B60881
Ethylbenzene	ND	1.0		µg/L	1	6/25/2019 1:50:00 AM	B60881
Xylenes, Total	ND	1.5		µg/L	1	6/25/2019 1:50:00 AM	B60881
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	6/25/2019 1:50:00 AM	B60881
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	6/25/2019 1:50:00 AM	B60881
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/25/2019 1:50:00 AM	B60881
Surr: Toluene-d8	102	70-130		%Rec	1	6/25/2019 1:50:00 AM	B60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B59**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-53
Project: Largo CS
Collection Date: 6/20/2019 10:05:00 AM
Lab ID: 1906B59-002 **Matrix:** AQUEOUS **Received Date:** 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/25/2019 2:14:00 AM	B60881
Toluene	ND	1.0		µg/L	1	6/25/2019 2:14:00 AM	B60881
Ethylbenzene	ND	1.0		µg/L	1	6/25/2019 2:14:00 AM	B60881
Xylenes, Total	ND	1.5		µg/L	1	6/25/2019 2:14:00 AM	B60881
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	6/25/2019 2:14:00 AM	B60881
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/25/2019 2:14:00 AM	B60881
Surr: Dibromofluoromethane	101	70-130		%Rec	1	6/25/2019 2:14:00 AM	B60881
Surr: Toluene-d8	99.7	70-130		%Rec	1	6/25/2019 2:14:00 AM	B60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B59**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-54
Project: Largo CS
Collection Date: 6/20/2019 10:50:00 AM
Lab ID: 1906B59-003 **Matrix:** AQUEOUS **Received Date:** 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	6/25/2019 2:39:00 AM	B60881
Toluene	ND	1.0		µg/L	1	6/25/2019 2:39:00 AM	B60881
Ethylbenzene	ND	1.0		µg/L	1	6/25/2019 2:39:00 AM	B60881
Xylenes, Total	ND	1.5		µg/L	1	6/25/2019 2:39:00 AM	B60881
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	6/25/2019 2:39:00 AM	B60881
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	6/25/2019 2:39:00 AM	B60881
Surr: Dibromofluoromethane	99.2	70-130		%Rec	1	6/25/2019 2:39:00 AM	B60881
Surr: Toluene-d8	101	70-130		%Rec	1	6/25/2019 2:39:00 AM	B60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1906B59**
Date Reported: **6/25/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-48
Project: Largo CS
Collection Date: 6/20/2019 11:45:00 AM
Lab ID: 1906B59-004 **Matrix:** AQUEOUS **Received Date:** 6/21/2019 8:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	6.1	1.0		µg/L	1	6/25/2019 3:03:00 AM	B60881
Toluene	ND	1.0		µg/L	1	6/25/2019 3:03:00 AM	B60881
Ethylbenzene	3.8	1.0		µg/L	1	6/25/2019 3:03:00 AM	B60881
Xylenes, Total	4.6	1.5		µg/L	1	6/25/2019 3:03:00 AM	B60881
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	6/25/2019 3:03:00 AM	B60881
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/25/2019 3:03:00 AM	B60881
Surr: Dibromofluoromethane	99.3	70-130		%Rec	1	6/25/2019 3:03:00 AM	B60881
Surr: Toluene-d8	100	70-130		%Rec	1	6/25/2019 3:03:00 AM	B60881

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1906B59**
25-Jun-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **B60881** RunNo: **60881**
Prep Date: Analysis Date: **6/25/2019** SeqNo: **2061105** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.8	70	130			
Toluene	20	1.0	20.00	0	99.2	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.5	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **RB2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **B60881** RunNo: **60881**
Prep Date: Analysis Date: **6/25/2019** SeqNo: **2061106** 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	1.5								
Surr: 1,2-Dichloroethane-d4	9.5		10.00		95.5	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.8	70	130			
Surr: Dibromofluoromethane	10		10.00		99.6	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 1906B59 RcptNo: 1

Received By: Anne Thorne 6/21/2019 8:18:00 AM

Completed By: Anne Thorne 6/21/2019 12:23:33 PM

Reviewed By: TO 6/21/19

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JX 6-21-19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON VOA VIALS/at 6/21/19

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			
2	1.0	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDeChilly

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 2.4-0.3CF = 2.1°C
1.3 -0.3CF = 1.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1906859	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
6/20/19	920	W	MW-49	3 40mL VOA	$HgCl_2$	001	X									
6/20/19	1005	W	MW-53	3 40mL VOA	$HgCl_2$	002	X									
6/20/19	1050	W	MW-54	3 40mL VOA	$HgCl_2$	003	X									
6/20/19	1145	W	MW-48	3 40mL VOA	$HgCl_2$	004	X									

NBS

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/20/19	1432				6/20/19	1432
6/20/19	1910				6/21/19	0818

Remarks: Bill to Ensolum

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 23, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1912904

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/18/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-8
Project: Largo CS
Collection Date: 12/17/2019 9:10:00 AM
Lab ID: 1912904-001 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 3:16:26 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 3:16:26 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 3:16:26 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 3:16:26 PM	B65336
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	12/20/2019 3:16:26 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-88
Project: Largo CS
Collection Date: 12/17/2019 9:35:00 AM
Lab ID: 1912904-002 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 3:39:13 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 3:39:13 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 3:39:13 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 3:39:13 PM	B65336
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	12/20/2019 3:39:13 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-89
Project: Largo CS
Collection Date: 12/17/2019 10:50:00 AM
Lab ID: 1912904-003 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 6:42:01 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 6:42:01 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 6:42:01 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 6:42:01 PM	B65336
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/20/2019 6:42:01 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-90
Project: Largo CS
Collection Date: 12/17/2019 11:30:00 AM
Lab ID: 1912904-004 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 7:04:55 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 7:04:55 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 7:04:55 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 7:04:55 PM	B65336
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/20/2019 7:04:55 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-14
Project: Largo CS
Collection Date: 12/17/2019 12:20:00 PM
Lab ID: 1912904-005 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 7:27:44 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 7:27:44 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 7:27:44 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 7:27:44 PM	B65336
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	12/20/2019 7:27:44 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-15
Project: Largo CS
Collection Date: 12/17/2019 1:05:00 PM
Lab ID: 1912904-006 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	9.9	1.0		µg/L	1	12/20/2019 7:50:34 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 7:50:34 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 7:50:34 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 7:50:34 PM	B65336
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	12/20/2019 7:50:34 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-3R
Project: Largo CS
Collection Date: 12/17/2019 1:50:00 PM
Lab ID: 1912904-007 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 8:13:25 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 8:13:25 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 8:13:25 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 8:13:25 PM	B65336
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	12/20/2019 8:13:25 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 12/17/2019 2:30:00 PM
Lab ID: 1912904-008 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 8:36:17 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 8:36:17 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 8:36:17 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 8:36:17 PM	B65336
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/20/2019 8:36:17 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912904**
Date Reported: **12/23/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Largo CS
Collection Date: 12/17/2019 3:10:00 PM
Lab ID: 1912904-009 **Matrix:** AQUEOUS **Received Date:** 12/18/2019 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/20/2019 8:59:05 PM	B65336
Toluene	ND	1.0		µg/L	1	12/20/2019 8:59:05 PM	B65336
Ethylbenzene	ND	1.0		µg/L	1	12/20/2019 8:59:05 PM	B65336
Xylenes, Total	ND	2.0		µg/L	1	12/20/2019 8:59:05 PM	B65336
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/20/2019 8:59:05 PM	B65336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1912904**
23-Dec-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B65336**	RunNo: **65336**
Prep Date:	Analysis Date: **12/20/2019**	SeqNo: **2244510** 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	24		20.00		118	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B65336**	RunNo: **65336**
Prep Date:	Analysis Date: **12/20/2019**	SeqNo: **2244511** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.7	80	120			
Toluene	19	1.0	20.00	0	94.5	80	120			
Ethylbenzene	19	1.0	20.00	0	95.3	80	120			
Xylenes, Total	57	2.0	60.00	0	95.1	80	119			
Surr: 4-Bromofluorobenzene	25		20.00		123	80	120			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1912904** RcptNo: **1**

Received By: **Desiree Dominguez** **12/18/2019 7:40:00 AM** DD

Completed By: **Desiree Dominguez** **12/18/2019 8:18:45 AM** DD

Reviewed By: YG 12/18/19

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: DM 12/18/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 1606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDeechilly
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp(including CF): 0.5-0.2=0.3°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1912904	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/17/19	910	W	MW-8	3x40mL VOA	$HgCl_2$	-001	X									
12/17/19	935	W	MW-88	3x40mL VOA	$HgCl_2$	-002	X									
12/17/19	1050	W	MW-89	3x40mL VOA	$HgCl_2$	-003	X									
12/17/19	1130	W	MW-90	3x40mL VOA	$HgCl_2$	-004	X									
12/17/19	1220	W	MW-14	3x40mL VOA	$HgCl_2$	-005	X									
12/17/19	1305	W	MW-15	3x40mL VOA	$HgCl_2$	-006	X									
12/17/19	1350	W	MW-3R	3x40mL VOA	$HgCl_2$	-007	X									
12/17/19	1430	W	MW-16	3x40mL VOA	$HgCl_2$	-008	X									
12/17/19	1510	W	MW-9	3x40mL VOA	$HgCl_2$	-009	X									

Date	Time	Relinquished by	Received by	Via	Date	Time
12/17/19	1733		Kristen Walk		12/17/19	1733
12/17/19	1803	Kristen Walk		courier	12/18/19	7:40

Remarks: Bill to ~~Ensolum~~

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 27, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 1912B55

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/21/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Largo CS
Collection Date: 12/19/2019 8:35:00 AM
Lab ID: 1912B55-001 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 8:40:15 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 8:40:15 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 8:40:15 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 8:40:15 PM	B65364
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	12/23/2019 8:40:15 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-13
Project: Largo CS
Collection Date: 12/19/2019 9:30:00 AM
Lab ID: 1912B55-002 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 9:03:39 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 9:03:39 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 9:03:39 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 9:03:39 PM	B65364
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	12/23/2019 9:03:39 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-7
Project: Largo CS
Collection Date: 12/19/2019 10:15:00 AM
Lab ID: 1912B55-003 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 9:27:03 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 9:27:03 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 9:27:03 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 9:27:03 PM	B65364
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	12/23/2019 9:27:03 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-40R
Project: Largo CS
Collection Date: 12/19/2019 11:00:00 AM
Lab ID: 1912B55-004 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 9:50:25 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 9:50:25 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 9:50:25 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 9:50:25 PM	B65364
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	12/23/2019 9:50:25 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-50
Project: Largo CS
Collection Date: 12/19/2019 11:45:00 AM
Lab ID: 1912B55-005 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 10:13:45 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 10:13:45 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 10:13:45 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 10:13:45 PM	B65364
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	12/23/2019 10:13:45 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-39
Project: Largo CS
Collection Date: 12/19/2019 12:30:00 PM
Lab ID: 1912B55-006 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/23/2019 10:37:11 PM	B65364
Toluene	ND	1.0		µg/L	1	12/23/2019 10:37:11 PM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/23/2019 10:37:11 PM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/23/2019 10:37:11 PM	B65364
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	12/23/2019 10:37:11 PM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-52
Project: Largo CS
Collection Date: 12/19/2019 1:15:00 PM
Lab ID: 1912B55-007 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 12:56:53 AM	B65364
Toluene	ND	1.0		µg/L	1	12/24/2019 12:56:53 AM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 12:56:53 AM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 12:56:53 AM	B65364
Surr: 4-Bromofluorobenzene	87.5	80-120		%Rec	1	12/24/2019 12:56:53 AM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-51
Project: Largo CS
Collection Date: 12/19/2019 2:10:00 PM
Lab ID: 1912B55-008 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 1:20:10 AM	B65364
Toluene	ND	1.0		µg/L	1	12/24/2019 1:20:10 AM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 1:20:10 AM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 1:20:10 AM	B65364
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	1	12/24/2019 1:20:10 AM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-41
Project: Largo CS
Collection Date: 12/19/2019 2:50:00 PM
Lab ID: 1912B55-009 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 1:43:25 AM	B65364
Toluene	ND	1.0		µg/L	1	12/24/2019 1:43:25 AM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 1:43:25 AM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 1:43:25 AM	B65364
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/24/2019 1:43:25 AM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-76
Project: Largo CS
Collection Date: 12/20/2019 9:15:00 AM
Lab ID: 1912B55-010 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 2:06:40 AM	B65364
Toluene	ND	1.0		µg/L	1	12/24/2019 2:06:40 AM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 2:06:40 AM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 2:06:40 AM	B65364
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	12/24/2019 2:06:40 AM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-77
Project: Largo CS
Collection Date: 12/20/2019 10:05:00 AM
Lab ID: 1912B55-011 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 2:29:54 AM	B65364
Toluene	ND	1.0		µg/L	1	12/24/2019 2:29:54 AM	B65364
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 2:29:54 AM	B65364
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 2:29:54 AM	B65364
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	12/24/2019 2:29:54 AM	B65364

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-80
Project: Largo CS
Collection Date: 12/20/2019 10:55:00 AM
Lab ID: 1912B55-012 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 11:49:33 AM	B65396
Toluene	ND	1.0		µg/L	1	12/24/2019 11:49:33 AM	B65396
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 11:49:33 AM	B65396
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 11:49:33 AM	B65396
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	12/24/2019 11:49:33 AM	B65396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-79
Project: Largo CS
Collection Date: 12/20/2019 11:20:00 AM
Lab ID: 1912B55-013 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 12:12:28 PM	B65396
Toluene	ND	1.0		µg/L	1	12/24/2019 12:12:28 PM	B65396
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 12:12:28 PM	B65396
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 12:12:28 PM	B65396
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/24/2019 12:12:28 PM	B65396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-83
Project: Largo CS
Collection Date: 12/20/2019 12:05:00 PM
Lab ID: 1912B55-014 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 12:35:24 PM	B65396
Toluene	ND	1.0		µg/L	1	12/24/2019 12:35:24 PM	B65396
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 12:35:24 PM	B65396
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 12:35:24 PM	B65396
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/24/2019 12:35:24 PM	B65396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-38
Project: Largo CS
Collection Date: 12/20/2019 12:40:00 PM
Lab ID: 1912B55-015 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 12:58:19 PM	B65396
Toluene	ND	1.0		µg/L	1	12/24/2019 12:58:19 PM	B65396
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 12:58:19 PM	B65396
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 12:58:19 PM	B65396
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	12/24/2019 12:58:19 PM	B65396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912B55**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-34
Project: Largo CS
Collection Date: 12/20/2019 1:20:00 PM
Lab ID: 1912B55-016 **Matrix:** AQUEOUS **Received Date:** 12/21/2019 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/24/2019 1:21:06 PM	B65396
Toluene	ND	1.0		µg/L	1	12/24/2019 1:21:06 PM	B65396
Ethylbenzene	ND	1.0		µg/L	1	12/24/2019 1:21:06 PM	B65396
Xylenes, Total	ND	2.0		µg/L	1	12/24/2019 1:21:06 PM	B65396
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	12/24/2019 1:21:06 PM	B65396

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1912B55**
27-Dec-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B65364**	RunNo: **65364**
Prep Date:	Analysis Date: **12/23/2019**	SeqNo: **2245479** 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		99.6	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B65364**	RunNo: **65364**
Prep Date:	Analysis Date: **12/23/2019**	SeqNo: **2245480** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	103	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	119			
Surr: 4-Bromofluorobenzene	22		20.00		111	80	120			

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B65396**	RunNo: **65396**
Prep Date:	Analysis Date: **12/24/2019**	SeqNo: **2246525** 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	21		20.00		107	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B65396**	RunNo: **65396**
Prep Date:	Analysis Date: **12/24/2019**	SeqNo: **2246526** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	80	120			
Toluene	19	1.0	20.00	0	93.6	80	120			
Ethylbenzene	19	1.0	20.00	0	94.2	80	120			
Xylenes, Total	57	2.0	60.00	0	94.7	80	119			
Surr: 4-Bromofluorobenzene	23		20.00		116	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1912B55** RcptNo: **1**

Received By: **Yazmine Garduno** **12/21/2019 9:30:00 AM** Yazmine Garduno

Completed By: **Yazmine Garduno** **12/23/2019 8:37:10 AM** Yazmine Garduno

Reviewed By: ENM 12/23/19

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: JR 12/23/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A

Aztec, NM 87410

Phone #:

email or Fax#: ksummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: ksummers

Sampler: RDeechilly

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.2=1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1912855	BTEX / ~~MTBE / TMBs~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/19/19	835	W	MW-6	3x40mL VOA	$HgCl_2$	-001	X									
12/19/19	930	W	MW-13	3x40mL VOA	$HgCl_2$	-002	X									
12/19/19	1015	W	MW-7	3x40mL VOA	$HgCl_2$	-003	X									
12/19/19	1100	W	MW-40R	3x40mL VOA	$HgCl_2$	-004	X									
12/19/19	1145	W	MW-50	3x40mL VOA	$HgCl_2$	-005	X									
12/19/19	1230	W	MW-39	3x40mL VOA	$HgCl_2$	-006	X									
12/19/19	1315	W	MW-52	3x40mL VOA	$HgCl_2$	-007	X									
12/19/19	1410	W	MW-51	3x40mL VOA	$HgCl_2$	-008	X									
12/19/19	1450	W	MW-41	3x40mL VOA	$HgCl_2$	-009	X									
12/20/19	915	W	MW-76	3x40mL VOA	$HgCl_2$	-010	X									
12/20/19	1005	W	MW-77	3x40mL VOA	$HgCl_2$	-011	X									
12/20/19	1055	W	MW-80	3x40mL VOA	$HgCl_2$	-012	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/20/19	1457		Christen Waeler		12/20/19	1457
12/20/19	1806	Christen Waeler				
					12/21/19	0930

Remarks: Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S Rio Grande Suite A

Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDeechilly

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.4 +0.2 = 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1912BSS
12/20/19	1120	W	MW-79	3x40mL VOA	$HgCl_2$	-013
12/20/19	1205	W	MW-83	3x40mL VOA	$HgCl_2$	-014
12/20/19	1240	W	MW-38	3x40mL VOA	$HgCl_2$	-015
12/20/19	1320	W	MW-34	3x40mL VOA	$HgCl_2$	-016

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X									
X									
X									
X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/20/19	1457					
12/20/19	1806				12/21/19	0930

Remarks: Bill to Ensolum

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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 27, 2019

Kyle Summers
ENSOLUM
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX:

RE: Largo CS OrderNo.: 1912C37

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/24/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-43
Project: Largo CS
Collection Date: 12/23/2019 11:15:00 AM
Lab ID: 1912C37-001 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 10:36:31 AM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 10:36:31 AM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 10:36:31 AM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 10:36:31 AM	B65425
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	12/26/2019 10:36:31 AM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-32
Project: Largo CS
Collection Date: 12/23/2019 11:50:00 AM
Lab ID: 1912C37-002 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 10:59:24 AM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 10:59:24 AM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 10:59:24 AM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 10:59:24 AM	B65425
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/26/2019 10:59:24 AM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-75
Project: Largo CS
Collection Date: 12/23/2019 12:10:00 PM
Lab ID: 1912C37-003 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 11:22:20 AM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 11:22:20 AM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 11:22:20 AM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 11:22:20 AM	B65425
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/26/2019 11:22:20 AM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-49
Project: Largo CS
Collection Date: 12/23/2019 1:05:00 PM
Lab ID: 1912C37-004 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 11:45:19 AM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 11:45:19 AM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 11:45:19 AM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 11:45:19 AM	B65425
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/26/2019 11:45:19 AM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-53
Project: Largo CS
Collection Date: 12/23/2019 1:40:00 AM
Lab ID: 1912C37-005 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 12:08:19 PM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 12:08:19 PM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 12:08:19 PM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 12:08:19 PM	B65425
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	12/26/2019 12:08:19 PM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-54
Project: Largo CS
Collection Date: 12/23/2019 2:15:00 PM
Lab ID: 1912C37-006 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	12/26/2019 12:31:16 PM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 12:31:16 PM	B65425
Ethylbenzene	ND	1.0		µg/L	1	12/26/2019 12:31:16 PM	B65425
Xylenes, Total	ND	2.0		µg/L	1	12/26/2019 12:31:16 PM	B65425
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	12/26/2019 12:31:16 PM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1912C37**
Date Reported: **12/27/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-48
Project: Largo CS
Collection Date: 12/23/2019 2:55:00 PM
Lab ID: 1912C37-007 **Matrix:** AQUEOUS **Received Date:** 12/24/2019 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	14	1.0		µg/L	1	12/26/2019 12:54:18 PM	B65425
Toluene	ND	1.0		µg/L	1	12/26/2019 12:54:18 PM	B65425
Ethylbenzene	3.5	1.0		µg/L	1	12/26/2019 12:54:18 PM	B65425
Xylenes, Total	19	2.0		µg/L	1	12/26/2019 12:54:18 PM	B65425
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	12/26/2019 12:54:18 PM	B65425

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1912C37**
27-Dec-19

Client: ENSOLUM
Project: Largo CS

Sample ID: **rb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B65425**	RunNo: **65425**
Prep Date:	Analysis Date: **12/26/2019**	SeqNo: **2247566** 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	22		20.00		110	80	120			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B65425**	RunNo: **65425**
Prep Date:	Analysis Date: **12/26/2019**	SeqNo: **2247567** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.0	80	120			
Toluene	18	1.0	20.00	0	91.7	80	120			
Ethylbenzene	19	1.0	20.00	0	92.7	80	120			
Xylenes, Total	56	2.0	60.00	0	93.4	80	119			
Surr: 4-Bromofluorobenzene	23		20.00		113	80	120			

Sample ID: **1912c37-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-43**	Batch ID: **B65425**	RunNo: **65425**
Prep Date:	Analysis Date: **12/26/2019**	SeqNo: **2247570** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.7	80	120			
Toluene	19	1.0	20.00	0	93.7	75.5	120			
Ethylbenzene	19	1.0	20.00	0	95.2	80	120			
Xylenes, Total	58	2.0	60.00	0	96.8	77.3	119			
Surr: 4-Bromofluorobenzene	22		20.00		109	80	120			

Sample ID: **1912c37-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-43**	Batch ID: **B65425**	RunNo: **65425**
Prep Date:	Analysis Date: **12/26/2019**	SeqNo: **2247571** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	86.2	80	120	8.42	20	
Toluene	17	1.0	20.00	0	86.8	75.5	120	7.64	20	
Ethylbenzene	18	1.0	20.00	0	89.2	80	120	6.49	20	
Xylenes, Total	54	2.0	60.00	0	89.5	77.3	119	7.84	20	
Surr: 4-Bromofluorobenzene	22		20.00		109	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **1912C37** RcptNo: 1

Received By: **Desiree Dominguez** **12/24/2019 8:30:00 AM** DD

Completed By: **Erin Melendrez** **12/24/2019 9:05:29 AM**

Reviewed By: DAD 12/24/19

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: DAD 12/24/19

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A

Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: KSummers

Sampler: RDeChilis

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.8 + 0.1 = 0.9°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1912C37	BTEX / ~~MTBE / TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/23/19	1115	W	MW-43	3x40mL VOA	$HgCl_2$	-001	X									
12/23/19	1150	W	MW-32	3x40mL VOA	$HgCl_2$	-002	X									
12/23/19	1210	W	MW-75	3x40mL VOA	$HgCl_2$	-003	X									
12/23/19	1305	W	MW-49	3x40mL VOA	$HgCl_2$	-004	X									
12/23/19	1340	W	MW-53	3x40mL VOA	$HgCl_2$	-005	X									
12/23/19	1415	W	MW-54	3x40mL VOA	$HgCl_2$	-006	X									
12/23/19	1455	W	MW-48	3x40mL VOA	$HgCl_2$	-007	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/23/19	1652		Monica Walker		12/23/19	1652
12/23/19	1810	Monica Walker		courier	12/24/19	8:30

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 05, 2020

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 2004C14

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/30/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-89
Project: Largo CS
Collection Date: 4/28/2020 12:35:00 PM
Lab ID: 2004C14-001 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 1:01:49 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 1:01:49 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 1:01:49 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 1:01:49 PM	SL68590
Surr: 1,2-Dichloroethane-d4	84.6	70-130		%Rec	1	5/1/2020 1:01:49 PM	SL68590
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/1/2020 1:01:49 PM	SL68590
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	5/1/2020 1:01:49 PM	SL68590
Surr: Toluene-d8	89.7	70-130		%Rec	1	5/1/2020 1:01:49 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-88
Project: Largo CS
Collection Date: 4/28/2020 1:30:00 PM
Lab ID: 2004C14-002 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 2:27:25 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 2:27:25 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 2:27:25 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 2:27:25 PM	SL68590
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	5/1/2020 2:27:25 PM	SL68590
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	5/1/2020 2:27:25 PM	SL68590
Surr: Dibromofluoromethane	93.4	70-130		%Rec	1	5/1/2020 2:27:25 PM	SL68590
Surr: Toluene-d8	92.0	70-130		%Rec	1	5/1/2020 2:27:25 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-90
Project: Largo CS
Collection Date: 4/28/2020 2:15:00 PM
Lab ID: 2004C14-003 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 2:56:00 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 2:56:00 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 2:56:00 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 2:56:00 PM	SL68590
Surr: 1,2-Dichloroethane-d4	84.6	70-130		%Rec	1	5/1/2020 2:56:00 PM	SL68590
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	5/1/2020 2:56:00 PM	SL68590
Surr: Dibromofluoromethane	92.7	70-130		%Rec	1	5/1/2020 2:56:00 PM	SL68590
Surr: Toluene-d8	94.2	70-130		%Rec	1	5/1/2020 2:56:00 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-8
Project: Largo CS
Collection Date: 4/29/2020 8:50:00 AM
Lab ID: 2004C14-004 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 3:24:32 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 3:24:32 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 3:24:32 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 3:24:32 PM	SL68590
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	1	5/1/2020 3:24:32 PM	SL68590
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/1/2020 3:24:32 PM	SL68590
Surr: Dibromofluoromethane	92.1	70-130		%Rec	1	5/1/2020 3:24:32 PM	SL68590
Surr: Toluene-d8	89.0	70-130		%Rec	1	5/1/2020 3:24:32 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-3R
Project: Largo CS
Collection Date: 4/29/2020 9:40:00 AM
Lab ID: 2004C14-005 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 3:53:05 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 3:53:05 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 3:53:05 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 3:53:05 PM	SL68590
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%Rec	1	5/1/2020 3:53:05 PM	SL68590
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	5/1/2020 3:53:05 PM	SL68590
Surr: Dibromofluoromethane	96.4	70-130		%Rec	1	5/1/2020 3:53:05 PM	SL68590
Surr: Toluene-d8	88.0	70-130		%Rec	1	5/1/2020 3:53:05 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-15
Project: Largo CS
Collection Date: 4/29/2020 10:25:00 AM
Lab ID: 2004C14-006 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 4:21:37 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 4:21:37 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 4:21:37 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 4:21:37 PM	SL68590
Surr: 1,2-Dichloroethane-d4	89.7	70-130		%Rec	1	5/1/2020 4:21:37 PM	SL68590
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/1/2020 4:21:37 PM	SL68590
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	5/1/2020 4:21:37 PM	SL68590
Surr: Toluene-d8	90.0	70-130		%Rec	1	5/1/2020 4:21:37 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-14
Project: Largo CS
Collection Date: 4/29/2020 11:10:00 AM
Lab ID: 2004C14-007 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 12:33:19 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 12:33:19 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 12:33:19 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 12:33:19 PM	SL68590
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	1	5/1/2020 12:33:19 PM	SL68590
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	5/1/2020 12:33:19 PM	SL68590
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	5/1/2020 12:33:19 PM	SL68590
Surr: Toluene-d8	90.1	70-130		%Rec	1	5/1/2020 12:33:19 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 4/29/2020 11:55:00 AM
Lab ID: 2004C14-008 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 4:50:09 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 4:50:09 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 4:50:09 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 4:50:09 PM	SL68590
Surr: 1,2-Dichloroethane-d4	88.4	70-130		%Rec	1	5/1/2020 4:50:09 PM	SL68590
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/1/2020 4:50:09 PM	SL68590
Surr: Dibromofluoromethane	94.0	70-130		%Rec	1	5/1/2020 4:50:09 PM	SL68590
Surr: Toluene-d8	90.6	70-130		%Rec	1	5/1/2020 4:50:09 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-13
Project: Largo CS
Collection Date: 4/29/2020 12:40:00 PM
Lab ID: 2004C14-009 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 5:18:43 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 5:18:43 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 5:18:43 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 5:18:43 PM	SL68590
Surr: 1,2-Dichloroethane-d4	88.7	70-130		%Rec	1	5/1/2020 5:18:43 PM	SL68590
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	5/1/2020 5:18:43 PM	SL68590
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	5/1/2020 5:18:43 PM	SL68590
Surr: Toluene-d8	93.7	70-130		%Rec	1	5/1/2020 5:18:43 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Largo CS
Collection Date: 4/29/2020 1:20:00 PM
Lab ID: 2004C14-010 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 5:47:16 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 5:47:16 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 5:47:16 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 5:47:16 PM	SL68590
Surr: 1,2-Dichloroethane-d4	89.1	70-130		%Rec	1	5/1/2020 5:47:16 PM	SL68590
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	5/1/2020 5:47:16 PM	SL68590
Surr: Dibromofluoromethane	93.9	70-130		%Rec	1	5/1/2020 5:47:16 PM	SL68590
Surr: Toluene-d8	94.0	70-130		%Rec	1	5/1/2020 5:47:16 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2004C14**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-7
Project: Largo CS
Collection Date: 4/29/2020 2:00:00 PM
Lab ID: 2004C14-011 **Matrix:** AQUEOUS **Received Date:** 4/30/2020 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/1/2020 6:15:52 PM	SL68590
Toluene	ND	1.0		µg/L	1	5/1/2020 6:15:52 PM	SL68590
Ethylbenzene	ND	1.0		µg/L	1	5/1/2020 6:15:52 PM	SL68590
Xylenes, Total	ND	1.5		µg/L	1	5/1/2020 6:15:52 PM	SL68590
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	1	5/1/2020 6:15:52 PM	SL68590
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	5/1/2020 6:15:52 PM	SL68590
Surr: Dibromofluoromethane	94.5	70-130		%Rec	1	5/1/2020 6:15:52 PM	SL68590
Surr: Toluene-d8	92.6	70-130		%Rec	1	5/1/2020 6:15:52 PM	SL68590

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004C14**
05-May-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **SL68590** RunNo: **68590**
Prep Date: Analysis Date: **5/1/2020** SeqNo: **2373128** 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	1.5								
Surr: 1,2-Dichloroethane-d4	8.6		10.00		85.6	70	130			
Surr: 4-Bromofluorobenzene	9.8		10.00		97.9	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.2	70	130			
Surr: Toluene-d8	9.1		10.00		90.9	70	130			

Sample ID: **100ng BTEX lcs** SampType: **LCS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **SL68590** RunNo: **68590**
Prep Date: Analysis Date: **5/1/2020** SeqNo: **2373129** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120			
Toluene	20	1.0	20.00	0	101	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	62	1.5	60.00	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.1	70	130			
Surr: Toluene-d8	9.0		10.00		90.3	70	130			

Sample ID: **2004c14-001a ms** SampType: **MS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-89** Batch ID: **SL68590** RunNo: **68590**
Prep Date: Analysis Date: **5/1/2020** SeqNo: **2373131** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	107	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	21	1.0	20.00	0	107	80	120			
Xylenes, Total	66	1.5	60.00	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		86.6	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Dibromofluoromethane	9.4		10.00		94.4	70	130			
Surr: Toluene-d8	9.0		10.00		89.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2004C14**
05-May-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **2004c14-001a msd** SampType: **MSD4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-89** Batch ID: **SL68590** RunNo: **68590**
Prep Date: Analysis Date: **5/1/2020** SeqNo: **2373132** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120	4.29	20	
Toluene	21	1.0	20.00	0	103	80	120	1.72	20	
Ethylbenzene	21	1.0	20.00	0	106	80	120	1.19	20	
Xylenes, Total	64	1.5	60.00	0	107	80	120	3.43	20	
Surr: 1,2-Dichloroethane-d4	8.6		10.00		86.2	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130	0	0	
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130	0	0	
Surr: Toluene-d8	9.1		10.00		91.1	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2004C14** RcptNo: **1**

Received By: **Isaiah Ortiz** **4/30/2020 7:50:00 AM** I-Ox

Completed By: **Isaiah Ortiz** **4/30/2020 8:14:10 AM** I-Ox

Reviewed By: DAD 4/30/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 4/30/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S. Rio Grande Suite A, Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Summers

Sampler: L. Daniel

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0 | CF | 0.4 °C (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2004C14	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/28/20	12:35	W	MW-89	3x 40mL VOA	$HgCl_2$	-001	X									
4/28/20	13:30	W	MW-88	3x 40mL VOA	$HgCl_2$	-002	X									
4/28/20	14:15	W	MW-90	3x 40mL VOA	$HgCl_2$	-003	X									
4/29/20	~~8:50~~ 8:15	W	MW-8	3x 40mL VOA	$HgCl_2$	-004	X									
4/29/20	9:40	W	MW-3R	3x 40mL VOA	$HgCl_2$	-005	X									
4/29/20	10:25	W	MW-15	3x 40mL VOA	$HgCl_2$	-006	X									
4/29/20	11:10	W	MW-14	~~3~~ 4 x 40mL VOA	$HgCl_2$	-007	X									
4/29/20	11:55	W	MW-16	3x 40mL VOA	$HgCl_2$	-008	X									
4/29/20	12:40	W	MW-13	3x 40mL VOA	$HgCl_2$	-009	X									
4/29/20	13:20	W	MW-6	3x 40mL VOA	$HgCl_2$	-010	X									
4/29/20	14:00	W	MW-7	3x 40mL VOA	$HgCl_2$	-011	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/29/20	1638		Christine Walls		4/29/20	1638
4/29/20	1820	Christine Walls		courier	4/30/20	0750

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 05, 2020

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 2005052

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/2/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Largo CS
Collection Date: 4/30/2020 8:55:00 AM
Lab ID: 2005052-001 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/2/2020 9:57:01 PM	B68601
Toluene	ND	1.0		µg/L	1	5/2/2020 9:57:01 PM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/2/2020 9:57:01 PM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/2/2020 9:57:01 PM	B68601
Surr: 1,2-Dichloroethane-d4	90.2	70-130		%Rec	1	5/2/2020 9:57:01 PM	B68601
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	5/2/2020 9:57:01 PM	B68601
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	5/2/2020 9:57:01 PM	B68601
Surr: Toluene-d8	105	70-130		%Rec	1	5/2/2020 9:57:01 PM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-49
Project: Largo CS
Collection Date: 4/30/2020 9:35:00 AM
Lab ID: 2005052-002 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/2/2020 10:25:39 PM	B68601
Toluene	ND	1.0		µg/L	1	5/2/2020 10:25:39 PM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/2/2020 10:25:39 PM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/2/2020 10:25:39 PM	B68601
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	5/2/2020 10:25:39 PM	B68601
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	5/2/2020 10:25:39 PM	B68601
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	5/2/2020 10:25:39 PM	B68601
Surr: Toluene-d8	103	70-130		%Rec	1	5/2/2020 10:25:39 PM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-53
Project: Largo CS
Collection Date: 4/30/2020 10:25:00 AM
Lab ID: 2005052-003 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/2/2020 10:54:32 PM	B68601
Toluene	ND	1.0		µg/L	1	5/2/2020 10:54:32 PM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/2/2020 10:54:32 PM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/2/2020 10:54:32 PM	B68601
Surr: 1,2-Dichloroethane-d4	88.9	70-130		%Rec	1	5/2/2020 10:54:32 PM	B68601
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	5/2/2020 10:54:32 PM	B68601
Surr: Dibromofluoromethane	100	70-130		%Rec	1	5/2/2020 10:54:32 PM	B68601
Surr: Toluene-d8	105	70-130		%Rec	1	5/2/2020 10:54:32 PM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-54
Project: Largo CS
Collection Date: 4/30/2020 11:10:00 AM
Lab ID: 2005052-004 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/2/2020 11:23:40 PM	B68601
Toluene	ND	1.0		µg/L	1	5/2/2020 11:23:40 PM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/2/2020 11:23:40 PM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/2/2020 11:23:40 PM	B68601
Surr: 1,2-Dichloroethane-d4	86.6	70-130		%Rec	1	5/2/2020 11:23:40 PM	B68601
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	5/2/2020 11:23:40 PM	B68601
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	5/2/2020 11:23:40 PM	B68601
Surr: Toluene-d8	99.7	70-130		%Rec	1	5/2/2020 11:23:40 PM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-48
Project: Largo CS
Collection Date: 4/30/2020 11:50:00 AM
Lab ID: 2005052-005 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 2:18:46 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 2:18:46 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 2:18:46 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 2:18:46 AM	B68601
Surr: 1,2-Dichloroethane-d4	86.4	70-130		%Rec	1	5/3/2020 2:18:46 AM	B68601
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/3/2020 2:18:46 AM	B68601
Surr: Dibromofluoromethane	95.1	70-130		%Rec	1	5/3/2020 2:18:46 AM	B68601
Surr: Toluene-d8	98.8	70-130		%Rec	1	5/3/2020 2:18:46 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-40R
Project: Largo CS
Collection Date: 4/30/2020 12:35:00 PM
Lab ID: 2005052-006 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 2:47:58 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 2:47:58 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 2:47:58 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 2:47:58 AM	B68601
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%Rec	1	5/3/2020 2:47:58 AM	B68601
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	5/3/2020 2:47:58 AM	B68601
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	5/3/2020 2:47:58 AM	B68601
Surr: Toluene-d8	99.8	70-130		%Rec	1	5/3/2020 2:47:58 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-75
Project: Largo CS
Collection Date: 4/30/2020 1:00:00 PM
Lab ID: 2005052-007 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 3:17:10 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 3:17:10 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 3:17:10 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 3:17:10 AM	B68601
Surr: 1,2-Dichloroethane-d4	83.4	70-130		%Rec	1	5/3/2020 3:17:10 AM	B68601
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/3/2020 3:17:10 AM	B68601
Surr: Dibromofluoromethane	95.2	70-130		%Rec	1	5/3/2020 3:17:10 AM	B68601
Surr: Toluene-d8	97.3	70-130		%Rec	1	5/3/2020 3:17:10 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-50
Project: Largo CS
Collection Date: 4/30/2020 1:40:00 PM
Lab ID: 2005052-008 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 3:46:07 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 3:46:07 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 3:46:07 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 3:46:07 AM	B68601
Surr: 1,2-Dichloroethane-d4	84.6	70-130		%Rec	1	5/3/2020 3:46:07 AM	B68601
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	5/3/2020 3:46:07 AM	B68601
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	5/3/2020 3:46:07 AM	B68601
Surr: Toluene-d8	99.1	70-130		%Rec	1	5/3/2020 3:46:07 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-39
Project: Largo CS
Collection Date: 4/30/2020 2:15:00 PM
Lab ID: 2005052-009 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 4:15:17 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 4:15:17 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 4:15:17 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 4:15:17 AM	B68601
Surr: 1,2-Dichloroethane-d4	87.1	70-130		%Rec	1	5/3/2020 4:15:17 AM	B68601
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	5/3/2020 4:15:17 AM	B68601
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	5/3/2020 4:15:17 AM	B68601
Surr: Toluene-d8	99.5	70-130		%Rec	1	5/3/2020 4:15:17 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-52
Project: Largo CS
Collection Date: 4/30/2020 3:40:00 PM
Lab ID: 2005052-010 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 5:40:51 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 5:40:51 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 5:40:51 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 5:40:51 AM	B68601
Surr: 1,2-Dichloroethane-d4	88.2	70-130		%Rec	1	5/3/2020 5:40:51 AM	B68601
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/3/2020 5:40:51 AM	B68601
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	5/3/2020 5:40:51 AM	B68601
Surr: Toluene-d8	103	70-130		%Rec	1	5/3/2020 5:40:51 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-51
Project: Largo CS
Collection Date: 5/1/2020 9:05:00 AM
Lab ID: 2005052-011 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 6:09:19 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 6:09:19 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 6:09:19 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 6:09:19 AM	B68601
Surr: 1,2-Dichloroethane-d4	89.6	70-130		%Rec	1	5/3/2020 6:09:19 AM	B68601
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/3/2020 6:09:19 AM	B68601
Surr: Dibromofluoromethane	98.8	70-130		%Rec	1	5/3/2020 6:09:19 AM	B68601
Surr: Toluene-d8	103	70-130		%Rec	1	5/3/2020 6:09:19 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-41
Project: Largo CS
Collection Date: 5/1/2020 9:45:00 AM
Lab ID: 2005052-012 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 6:37:51 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 6:37:51 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 6:37:51 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 6:37:51 AM	B68601
Surr: 1,2-Dichloroethane-d4	92.3	70-130		%Rec	1	5/3/2020 6:37:51 AM	B68601
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/3/2020 6:37:51 AM	B68601
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/3/2020 6:37:51 AM	B68601
Surr: Toluene-d8	104	70-130		%Rec	1	5/3/2020 6:37:51 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-32
Project: Largo CS
Collection Date: 5/1/2020 10:30:00 AM
Lab ID: 2005052-013 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 7:06:26 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 7:06:26 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 7:06:26 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 7:06:26 AM	B68601
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%Rec	1	5/3/2020 7:06:26 AM	B68601
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/3/2020 7:06:26 AM	B68601
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/3/2020 7:06:26 AM	B68601
Surr: Toluene-d8	101	70-130		%Rec	1	5/3/2020 7:06:26 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-43
Project: Largo CS
Collection Date: 5/1/2020 11:15:00 AM
Lab ID: 2005052-014 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 7:35:04 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 7:35:04 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 7:35:04 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 7:35:04 AM	B68601
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec	1	5/3/2020 7:35:04 AM	B68601
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	5/3/2020 7:35:04 AM	B68601
Surr: Dibromofluoromethane	101	70-130		%Rec	1	5/3/2020 7:35:04 AM	B68601
Surr: Toluene-d8	106	70-130		%Rec	1	5/3/2020 7:35:04 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-34
Project: Largo CS
Collection Date: 5/1/2020 11:55:00 AM
Lab ID: 2005052-015 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 8:03:31 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 8:03:31 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 8:03:31 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 8:03:31 AM	B68601
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	1	5/3/2020 8:03:31 AM	B68601
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	5/3/2020 8:03:31 AM	B68601
Surr: Dibromofluoromethane	99.5	70-130		%Rec	1	5/3/2020 8:03:31 AM	B68601
Surr: Toluene-d8	102	70-130		%Rec	1	5/3/2020 8:03:31 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005052**
Date Reported: **5/5/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-38
Project: Largo CS
Collection Date: 5/1/2020 12:35:00 PM
Lab ID: 2005052-016 **Matrix:** AQUEOUS **Received Date:** 5/2/2020 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	5/3/2020 8:32:05 AM	B68601
Toluene	ND	1.0		µg/L	1	5/3/2020 8:32:05 AM	B68601
Ethylbenzene	ND	1.0		µg/L	1	5/3/2020 8:32:05 AM	B68601
Xylenes, Total	ND	1.5		µg/L	1	5/3/2020 8:32:05 AM	B68601
Surr: 1,2-Dichloroethane-d4	87.1	70-130		%Rec	1	5/3/2020 8:32:05 AM	B68601
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	5/3/2020 8:32:05 AM	B68601
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	5/3/2020 8:32:05 AM	B68601
Surr: Toluene-d8	105	70-130		%Rec	1	5/3/2020 8:32:05 AM	B68601

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2005052**
05-May-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **B68601** RunNo: **68601**
Prep Date: Analysis Date: **5/3/2020** SeqNo: **2373503** 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	1.5								
Surr: 1,2-Dichloroethane-d4	8.7		10.00		86.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.2	70	130			
Surr: Toluene-d8	9.6		10.00		96.0	70	130			

Sample ID: **100ng BTEX lcs** SampType: **LCS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **B68601** RunNo: **68601**
Prep Date: Analysis Date: **5/3/2020** SeqNo: **2373504** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	89.7	80	120			
Toluene	21	1.0	20.00	0	106	80	120			
Ethylbenzene	21	1.0	20.00	0	106	80	120			
Xylenes, Total	65	1.5	60.00	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	8.4		10.00		84.1	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.7	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **2005052-009a ms** SampType: **MS4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-39** Batch ID: **B68601** RunNo: **68601**
Prep Date: Analysis Date: **5/3/2020** SeqNo: **2373514** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.6	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	16	1.0	20.00	0	79.3	80	120			S
Xylenes, Total	59	1.5	60.00	0	98.5	80	120			
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.2	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2005052**
05-May-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **2005052-009a msd** SampType: **MSD4** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-39** Batch ID: **B68601** RunNo: **68601**
Prep Date: Analysis Date: **5/3/2020** SeqNo: **2373515** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.3	80	120	5.81	20	
Toluene	19	1.0	20.00	0	96.5	80	120	3.54	20	
Ethylbenzene	15	1.0	20.00	0	75.9	80	120	4.44	20	S
Xylenes, Total	57	1.5	60.00	0	94.3	80	120	4.35	20	
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	9.9		10.00		99.4	70	130	0	0	
Surr: Toluene-d8	10		10.00		103	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENSOLUM AZTEC Work Order Number: 2005052 RcptNo: 1

Received By: **Juan Rojas** 5/2/2020 8:25:00 AM

Completed By: **Juan Rojas** 5/2/2020 9:06:58 AM

Reviewed By: LB 5/2/20

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 5/2/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good				

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S. Rio Grande Suite A Aztec, NM 87410

Phone #:

email or Fax#: KSummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.9+0.1=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2005052	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/30/20	8:55	W	MW-9	3x40mL VOA	$HgCl_2$	-001	X									
4/30/20	9:35	W	MW-49	3x40mL VOA	$HgCl_2$	-002	X									
4/30/20	10:25	W	MW-53	3x40mL VOA	$HgCl_2$	-003	X									
4/30/20	11:10	W	MW-54	3x40mL VOA	$HgCl_2$	-004	X									
4/30/20	11:50	W	MW-48	3x40mL VOA	$HgCl_2$	-005	X									
4/30/20	12:35	W	MW-401Z	3x40mL VOA	$HgCl_2$	-006	X									
4/30/20	13:00	W	MW-75	3x40mL VOA	$HgCl_2$	-007	X									
4/30/20	13:40	W	MW-50	3x40mL VOA	$HgCl_2$	-008	X									
4/30/20	14:15	W	MW-39	3x40mL VOA	$HgCl_2$	-009	X									
4/30/20	15:40	W	MW-52	3x40mL VOA	$HgCl_2$	-010	X									
5/1/20	9:05	W	MW-51	3x40mL VOA	$HgCl_2$	-011	X									
5/1/20	9:45	W	MW-41	3x40mL VOA	$HgCl_2$	-012	X									

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/1/20	1541				5/1/2020	1541
5/1/20	1753			Courier	5/2/20	8:25

Remarks:
Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.9+0.1=3.0 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/1/20	10:30	W	MW-32	3x40 mL VOA	$HgCl_2$	-013	X									
5/1/20	11:15	W	MW-43	3x40 mL VOA	$HgCl_2$	-014	X									
5/1/20	11:55	W	MW-34	3x40 mL VOA	$HgCl_2$	-015	X									
5/1/20	12:35	W	MW-38	3x40 mL VOA	$HgCl_2$	-016	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/1/20	1541				5/1/20	1541
5/1/20	1753			courier	5/7/20	8:25

Remarks: Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 07, 2020

Kyle Summers

ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 2005107

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/5/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2005107**
Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-83
Project: Largo CS
Collection Date: 5/4/2020 9:00:00 AM
Lab ID: 2005107-001 **Matrix:** AQUEOUS **Received Date:** 5/5/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	5/6/2020 10:30:04 AM	B68700
Toluene	ND	1.0		µg/L	1	5/6/2020 10:30:04 AM	B68700
Ethylbenzene	ND	1.0		µg/L	1	5/6/2020 10:30:04 AM	B68700
Xylenes, Total	ND	2.0		µg/L	1	5/6/2020 10:30:04 AM	B68700
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	5/6/2020 10:30:04 AM	B68700

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005107**
Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-76
Project: Largo CS
Collection Date: 5/4/2020 9:50:00 AM
Lab ID: 2005107-002 **Matrix:** AQUEOUS **Received Date:** 5/5/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	5/6/2020 10:53:28 AM	B68700
Toluene	ND	1.0		µg/L	1	5/6/2020 10:53:28 AM	B68700
Ethylbenzene	ND	1.0		µg/L	1	5/6/2020 10:53:28 AM	B68700
Xylenes, Total	ND	2.0		µg/L	1	5/6/2020 10:53:28 AM	B68700
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	5/6/2020 10:53:28 AM	B68700

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005107**
Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-77
Project: Largo CS
Collection Date: 5/4/2020 10:30:00 AM
Lab ID: 2005107-003 **Matrix:** AQUEOUS **Received Date:** 5/5/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	5/6/2020 11:16:53 AM	B68700
Toluene	ND	1.0		µg/L	1	5/6/2020 11:16:53 AM	B68700
Ethylbenzene	ND	1.0		µg/L	1	5/6/2020 11:16:53 AM	B68700
Xylenes, Total	ND	2.0		µg/L	1	5/6/2020 11:16:53 AM	B68700
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	5/6/2020 11:16:53 AM	B68700

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005107**
Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-80
Project: Largo CS
Collection Date: 5/4/2020 11:10:00 AM
Lab ID: 2005107-004 **Matrix:** AQUEOUS **Received Date:** 5/5/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	5/6/2020 11:40:19 AM	B68700
Toluene	ND	1.0		µg/L	1	5/6/2020 11:40:19 AM	B68700
Ethylbenzene	ND	1.0		µg/L	1	5/6/2020 11:40:19 AM	B68700
Xylenes, Total	ND	2.0		µg/L	1	5/6/2020 11:40:19 AM	B68700
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	5/6/2020 11:40:19 AM	B68700

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2005107**
Date Reported: **5/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-79
Project: Largo CS
Collection Date: 5/4/2020 12:00:00 PM
Lab ID: 2005107-005 **Matrix:** AQUEOUS **Received Date:** 5/5/2020 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	5/6/2020 12:03:44 PM	B68700
Toluene	ND	1.0		µg/L	1	5/6/2020 12:03:44 PM	B68700
Ethylbenzene	ND	1.0		µg/L	1	5/6/2020 12:03:44 PM	B68700
Xylenes, Total	ND	2.0		µg/L	1	5/6/2020 12:03:44 PM	B68700
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	5/6/2020 12:03:44 PM	B68700

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2005107**

07-May-20

Client: ENSOLUM

Project: Largo CS

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B68700**	RunNo: **68700**
Prep Date:	Analysis Date: **5/6/2020**	SeqNo: **2376948** 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		99.7	80	120			

Sample ID: **100ng btex lcsb**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B68700**	RunNo: **68700**
Prep Date:	Analysis Date: **5/6/2020**	SeqNo: **2376949** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.6	80	120			
Toluene	20	1.0	20.00	0	98.2	80	120			
Ethylbenzene	20	1.0	20.00	0	98.5	80	120			
Xylenes, Total	59	2.0	60.00	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		100	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM AZTEC** Work Order Number: **2005107** RcptNo: 1

Received By: **Isaiah Ortiz** **5/5/2020 8:15:00 AM** I-OK

Completed By: **Isaiah Ortiz** **5/5/2020 8:51:22 AM** I-OK

Reviewed By: SR 5/5/20

Chain of Custody

1. Is Chain of Custody sufficiently complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: EM 5/5/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

Chain-of-Custody Record

Client: Ensolum LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A122600)

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.5 +0.1[F] 3.6 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2005107	BTEX / ~~MTBE~~ / ~~TMB's~~ (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
5/4/20	9:00	W	MW-83	3x40mL VOA	$HgCl_2$	-001	X									
5/4/20	~~10:30~~ 9:30	W	MW-76	3x40mL VOA	$HgCl_2$	-002	X									
5/4/20	10:30	W	MW-77	3x40mL VOA	$HgCl_2$	-003	X									
5/4/20	11:10	W	MW-80	3x40mL VOA	$HgCl_2$	-004	X									
5/4/20	12:00	W	MW-79	3x40mL VOA	$HgCl_2$	-005	X									
~~5/4/20~~	~~—~~	~~W~~	~~—~~	~~3x40mL VOA~~	~~$HgCl_2$~~	~~—~~	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
5/4/20	1604		Mat Wall		5/4/2020	1604
5/4/2020	1738			courier	5/5/20	0815

Remarks:
Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

November 02, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 2010C76

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 17 sample(s) on 10/29/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-89
Project: Largo CS
Collection Date: 10/27/2020 10:45:00 AM
Lab ID: 2010C76-001 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 6:44:07 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 6:44:07 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 6:44:07 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 6:44:07 PM	B73059
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/1/2020 6:44:07 PM	B73059
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	11/1/2020 6:44:07 PM	B73059
Surr: Toluene-d8	101	70-130		%Rec	1	11/1/2020 6:44:07 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-88
Project: Largo CS
Collection Date: 10/27/2020 11:40:00 AM
Lab ID: 2010C76-002 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 7:11:30 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 7:11:30 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 7:11:30 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 7:11:30 PM	B73059
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	11/1/2020 7:11:30 PM	B73059
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2020 7:11:30 PM	B73059
Surr: Toluene-d8	104	70-130		%Rec	1	11/1/2020 7:11:30 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-14
Project: Largo CS
Collection Date: 10/27/2020 12:25:00 PM
Lab ID: 2010C76-003 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 7:38:52 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 7:38:52 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 7:38:52 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 7:38:52 PM	B73059
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/1/2020 7:38:52 PM	B73059
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	11/1/2020 7:38:52 PM	B73059
Surr: Toluene-d8	100	70-130		%Rec	1	11/1/2020 7:38:52 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-15
Project: Largo CS
Collection Date: 10/27/2020 1:05:00 PM
Lab ID: 2010C76-004 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 8:06:06 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 8:06:06 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 8:06:06 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 8:06:06 PM	B73059
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	11/1/2020 8:06:06 PM	B73059
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/1/2020 8:06:06 PM	B73059
Surr: Toluene-d8	103	70-130		%Rec	1	11/1/2020 8:06:06 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-13
Project: Largo CS
Collection Date: 10/27/2020 1:45:00 PM
Lab ID: 2010C76-005 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 8:33:28 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 8:33:28 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 8:33:28 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 8:33:28 PM	B73059
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/1/2020 8:33:28 PM	B73059
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	11/1/2020 8:33:28 PM	B73059
Surr: Toluene-d8	103	70-130		%Rec	1	11/1/2020 8:33:28 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-3R
Project: Largo CS
Collection Date: 10/27/2020 2:25:00 PM
Lab ID: 2010C76-006 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 9:00:46 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 9:00:46 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 9:00:46 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 9:00:46 PM	B73059
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	11/1/2020 9:00:46 PM	B73059
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	11/1/2020 9:00:46 PM	B73059
Surr: Toluene-d8	104	70-130		%Rec	1	11/1/2020 9:00:46 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-7
Project: Largo CS **Collection Date:** 10/27/2020 3:10:00 PM
Lab ID: 2010C76-007 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 9:28:10 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 9:28:10 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 9:28:10 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 9:28:10 PM	B73059
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	11/1/2020 9:28:10 PM	B73059
Surr: Dibromofluoromethane	100	70-130		%Rec	1	11/1/2020 9:28:10 PM	B73059
Surr: Toluene-d8	101	70-130		%Rec	1	11/1/2020 9:28:10 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 10/28/2020 9:30:00 AM
Lab ID: 2010C76-008 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 10:50:09 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 10:50:09 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 10:50:09 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 10:50:09 PM	B73059
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	11/1/2020 10:50:09 PM	B73059
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	11/1/2020 10:50:09 PM	B73059
Surr: Toluene-d8	101	70-130		%Rec	1	11/1/2020 10:50:09 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-6
Project: Largo CS
Collection Date: 10/28/2020 10:00:00 AM
Lab ID: 2010C76-009 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/1/2020 11:17:27 PM	B73059
Toluene	ND	1.0		µg/L	1	11/1/2020 11:17:27 PM	B73059
Ethylbenzene	ND	1.0		µg/L	1	11/1/2020 11:17:27 PM	B73059
Xylenes, Total	ND	1.5		µg/L	1	11/1/2020 11:17:27 PM	B73059
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	11/1/2020 11:17:27 PM	B73059
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	11/1/2020 11:17:27 PM	B73059
Surr: Toluene-d8	102	70-130		%Rec	1	11/1/2020 11:17:27 PM	B73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-8
Project: Largo CS
Collection Date: 10/28/2020 10:35:00 AM
Lab ID: 2010C76-010 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 1:33:52 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 1:33:52 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 1:33:52 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 1:33:52 AM	C73059
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	11/2/2020 1:33:52 AM	C73059
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	11/2/2020 1:33:52 AM	C73059
Surr: Toluene-d8	99.5	70-130		%Rec	1	11/2/2020 1:33:52 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-9
Project: Largo CS
Collection Date: 10/28/2020 11:15:00 AM
Lab ID: 2010C76-011 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 2:01:07 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 2:01:07 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 2:01:07 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 2:01:07 AM	C73059
Surr: 1,2-Dichloroethane-d4	99.3	70-130		%Rec	1	11/2/2020 2:01:07 AM	C73059
Surr: Dibromofluoromethane	100	70-130		%Rec	1	11/2/2020 2:01:07 AM	C73059
Surr: Toluene-d8	100	70-130		%Rec	1	11/2/2020 2:01:07 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-53
Project: Largo CS
Collection Date: 10/28/2020 12:00:00 PM
Lab ID: 2010C76-012 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 2:28:20 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 2:28:20 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 2:28:20 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 2:28:20 AM	C73059
Surr: 1,2-Dichloroethane-d4	95.8	70-130		%Rec	1	11/2/2020 2:28:20 AM	C73059
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	11/2/2020 2:28:20 AM	C73059
Surr: Toluene-d8	99.9	70-130		%Rec	1	11/2/2020 2:28:20 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-48
Project: Largo CS **Collection Date:** 10/28/2020 12:45:00 PM
Lab ID: 2010C76-013 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	24	1.0		µg/L	1	11/2/2020 3:49:56 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 3:49:56 AM	C73059
Ethylbenzene	6.8	1.0		µg/L	1	11/2/2020 3:49:56 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 3:49:56 AM	C73059
Surr: 1,2-Dichloroethane-d4	93.6	70-130		%Rec	1	11/2/2020 3:49:56 AM	C73059
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	11/2/2020 3:49:56 AM	C73059
Surr: Toluene-d8	97.4	70-130		%Rec	1	11/2/2020 3:49:56 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-54
Project: Largo CS
Collection Date: 10/28/2020 2:00:00 PM
Lab ID: 2010C76-014 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 4:17:05 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 4:17:05 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 4:17:05 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 4:17:05 AM	C73059
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	1	11/2/2020 4:17:05 AM	C73059
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	11/2/2020 4:17:05 AM	C73059
Surr: Toluene-d8	97.4	70-130		%Rec	1	11/2/2020 4:17:05 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-40R
Project: Largo CS
Collection Date: 10/28/2020 2:40:00 PM
Lab ID: 2010C76-015 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 4:44:13 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 4:44:13 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 4:44:13 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 4:44:13 AM	C73059
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	11/2/2020 4:44:13 AM	C73059
Surr: Dibromofluoromethane	94.2	70-130		%Rec	1	11/2/2020 4:44:13 AM	C73059
Surr: Toluene-d8	97.6	70-130		%Rec	1	11/2/2020 4:44:13 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-50
Project: Largo CS **Collection Date:** 10/28/2020 3:25:00 PM
Lab ID: 2010C76-016 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 5:11:22 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 5:11:22 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 5:11:22 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 5:11:22 AM	C73059
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%Rec	1	11/2/2020 5:11:22 AM	C73059
Surr: Dibromofluoromethane	94.7	70-130		%Rec	1	11/2/2020 5:11:22 AM	C73059
Surr: Toluene-d8	97.1	70-130		%Rec	1	11/2/2020 5:11:22 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2010C76**
Date Reported: **11/2/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-39
Project: Largo CS **Collection Date:** 10/28/2020 4:10:00 PM
Lab ID: 2010C76-017 **Matrix:** AQUEOUS **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	11/2/2020 5:38:30 AM	C73059
Toluene	ND	1.0		µg/L	1	11/2/2020 5:38:30 AM	C73059
Ethylbenzene	ND	1.0		µg/L	1	11/2/2020 5:38:30 AM	C73059
Xylenes, Total	ND	1.5		µg/L	1	11/2/2020 5:38:30 AM	C73059
Surr: 1,2-Dichloroethane-d4	95.5	70-130		%Rec	1	11/2/2020 5:38:30 AM	C73059
Surr: Dibromofluoromethane	93.3	70-130		%Rec	1	11/2/2020 5:38:30 AM	C73059
Surr: Toluene-d8	97.4	70-130		%Rec	1	11/2/2020 5:38:30 AM	C73059

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2010C76**
02-Nov-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **mb1** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **B73059** RunNo: **73059**
Prep Date: Analysis Date: **11/1/2020** SeqNo: **2568412** 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	1.5								
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.7		10.00		97.3	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: **100ng lcs** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **B73059** RunNo: **73059**
Prep Date: Analysis Date: **11/1/2020** SeqNo: **2568413** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.9	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		111	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.9	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID: **mb2** SampType: **MBLK** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW** Batch ID: **C73059** RunNo: **73059**
Prep Date: Analysis Date: **11/2/2020** SeqNo: **2568440** 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	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.6	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	9.8		10.00		97.6	70	130			
Surr: Toluene-d8	9.7		10.00		97.2	70	130			

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **C73059** RunNo: **73059**
Prep Date: Analysis Date: **11/2/2020** SeqNo: **2568442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2010C76**
02-Nov-20

Client: ENSOLUM
Project: Largo CS

Sample ID: **100ng lcs2** SampType: **LCS** TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **LCSW** Batch ID: **C73059** RunNo: **73059**
Prep Date: Analysis Date: **11/2/2020** SeqNo: **2568442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.9	70	130			
Toluene	20	1.0	20.00	0	97.9	70	130			
Surr: 1,2-Dichloroethane-d4	9.7		10.00		96.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	10		10.00		99.5	70	130			
Surr: Toluene-d8	9.6		10.00		96.4	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2010C76** RcptNo: 1

Received By: **Cheyenne Cason** **10/29/2020 8:00:00 AM**

Completed By: **Desiree Dominguez** **10/29/2020 9:07:26 AM** DD

Reviewed By: SPA 10.29.20

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JR 10/29/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes			

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: KSimmons@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Simmons

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.9 − 0.1 = 4.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2010676	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/27/20	10:45	W	MW-89	3x40mL VOA	$HgCl_2$	001	X									
10/27/20	11:40	W	MW-88	3x40mL VOA	$HgCl_2$	002	X									
10/27/20	12:25	W	MW-14	3x40mL VOA	$HgCl_2$	003	X									
10/27/20	13:05	W	MW-15	3x40mL VOA	$HgCl_2$	004	X									
10/27/20	13:45	W	MW-13	3x40mL VOA	$HgCl_2$	005	X									
10/27/20	14:25	W	MW-~~16~~ 3R LD	3x40mL VOA	$HgCl_2$	006	X									
10/27/20	15:10	W	MW-7	3x40mL VOA	$HgCl_2$	007	X									
10/28/20	9:30	W	MW-~~3R~~ 16 LD	3x40mL VOA	$HgCl_2$	008	X									
10/28/20	10:00	W	MW-6	3x40mL VOA	$HgCl_2$	009	X									
10/28/20	10:35	W	MW-8	3x40mL VOA	$HgCl_2$	010	X									
10/28/20	11:15	W	MW-9	3x40mL VOA	$HgCl_2$	011	X									
10/28/20	12:00	W	MW-5.3	3x40mL VOA	$HgCl_2$	012	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/28/20	1743				10/28/2020	1743
~~10/29~~	1814				10/29/20 ~~10/28/20~~	0800

Remarks: seal intact on cooler 10/29/20

Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S RioGrande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: ksimmers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Simmers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.9-0.1=4.8 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / ~~MTBE~~ / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/28/20	12:45	W	MW-48	3x 40mL VOA	$HgCl_2$	013	X									
10/28/20	14:00	W	MW-54	3x 40mL VOA	$HgCl_2$	014	X									
10/28/20	14:40	W	MW-~~50~~ 402 (D)	3x 40mL VOA	$HgCl_2$	015	X									
10/28/20	15:25	W	MW-~~402~~ 50 (D)	3x 40mL VOA	$HgCl_2$	016	X									
10/28/20	16:10	W	MW-39	3x 40mL VOA	$HgCl_2$	017	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/28/20	1743				10/28/2021	1743
10/28/2021	1814				10/29/21	0800

Remarks: Seal intact on cooler cnc 10/29/21

Bill to Ensolum

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

November 04, 2020

Kyle Summers
ENSOLUM
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX: (214) 350-2914

RE: Largo CS OrderNo.: 2011002

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/31/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-51
Project: Largo CS
Collection Date: 10/29/2020 9:05:00 AM
Lab ID: 2011002-001 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 11:13:49 AM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 11:13:49 AM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 11:13:49 AM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 11:13:49 AM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 11:13:49 AM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM **Client Sample ID:** MW-41
Project: Largo CS **Collection Date:** 10/29/2020 9:45:00 AM
Lab ID: 2011002-002 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 12:23:58 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 12:23:58 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 12:23:58 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 12:23:58 PM	B73103
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/3/2020 12:23:58 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-32
Project: Largo CS
Collection Date: 10/29/2020 10:45:00 AM
Lab ID: 2011002-003 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 12:47:22 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 12:47:22 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 12:47:22 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 12:47:22 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 12:47:22 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-75
Project: Largo CS
Collection Date: 10/29/2020 10:50:00 AM
Lab ID: 2011002-004 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 1:10:56 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 1:10:56 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 1:10:56 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 1:10:56 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 1:10:56 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-43
Project: Largo CS
Collection Date: 10/29/2020 11:30:00 AM
Lab ID: 2011002-005 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 1:34:37 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 1:34:37 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 1:34:37 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 1:34:37 PM	B73103
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	11/3/2020 1:34:37 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-38
Project: Largo CS
Collection Date: 10/29/2020 12:15:00 PM
Lab ID: 2011002-006 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 1:58:17 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 1:58:17 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 1:58:17 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 1:58:17 PM	B73103
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	11/3/2020 1:58:17 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-34
Project: Largo CS
Collection Date: 10/29/2020 12:45:00 PM
Lab ID: 2011002-007 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 2:22:00 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 2:22:00 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 2:22:00 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 2:22:00 PM	B73103
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	11/3/2020 2:22:00 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-83
Project: Largo CS
Collection Date: 10/29/2020 1:20:00 PM
Lab ID: 2011002-008 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 7:03:40 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 7:03:40 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 7:03:40 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 7:03:40 PM	B73103
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	11/3/2020 7:03:40 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-80
Project: Largo CS
Collection Date: 10/29/2020 2:05:00 PM
Lab ID: 2011002-009 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 7:27:12 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 7:27:12 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 7:27:12 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 7:27:12 PM	B73103
Surr: 4-Bromofluorobenzene	99.2	80-120		%Rec	1	11/3/2020 7:27:12 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-76
Project: Largo CS
Collection Date: 10/29/2020 2:50:00 PM
Lab ID: 2011002-010 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	2.0	D	µg/L	2	11/3/2020 7:50:48 PM	B73103
Toluene	ND	2.0	D	µg/L	2	11/3/2020 7:50:48 PM	B73103
Ethylbenzene	ND	2.0	D	µg/L	2	11/3/2020 7:50:48 PM	B73103
Xylenes, Total	ND	4.0	D	µg/L	2	11/3/2020 7:50:48 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120	D	%Rec	2	11/3/2020 7:50:48 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-77
Project: Largo CS
Collection Date: 10/29/2020 3:30:00 PM
Lab ID: 2011002-011 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 8:14:22 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 8:14:22 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 8:14:22 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 8:14:22 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 8:14:22 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-79
Project: Largo CS
Collection Date: 10/29/2020 4:10:00 PM
Lab ID: 2011002-012 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 8:37:58 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 8:37:58 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 8:37:58 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 8:37:58 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 8:37:58 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2011002**
Date Reported: **11/4/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM
Client Sample ID: MW-52
Project: Largo CS
Collection Date: 10/29/2020 4:55:00 PM
Lab ID: 2011002-013 **Matrix:** AQUEOUS **Received Date:** 10/31/2020 11:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/3/2020 9:01:32 PM	B73103
Toluene	ND	1.0		µg/L	1	11/3/2020 9:01:32 PM	B73103
Ethylbenzene	ND	1.0		µg/L	1	11/3/2020 9:01:32 PM	B73103
Xylenes, Total	ND	2.0		µg/L	1	11/3/2020 9:01:32 PM	B73103
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	11/3/2020 9:01:32 PM	B73103

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2011002**

04-Nov-20

Client: ENSOLUM

Project: Largo CS

Sample ID: **mb1**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **B73103**	RunNo: **73103**
Prep Date:	Analysis Date: **11/3/2020**	SeqNo: **2570739** 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		98.9	80	120			

Sample ID: **100ng btex lcsb**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **B73103**	RunNo: **73103**
Prep Date:	Analysis Date: **11/3/2020**	SeqNo: **2570740** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.8	80	120			
Toluene	20	1.0	20.00	0	98.0	80	120			
Ethylbenzene	20	1.0	20.00	0	98.4	80	120			
Xylenes, Total	59	2.0	60.00	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		99.2	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **ENSOLUM** Work Order Number: **2011002** RcptNo: **1**

Received By: **Erin Melendrez** **10/31/2020 11:00:00 AM**

Completed By: **Erin Melendrez** **11/2/2020 8:50:23 AM**

Reviewed By: DAD 11/2/20
DAD 11/2/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☑ No ☐ NA ☐
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: JR 11/2/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good				

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolumcom

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1 +0.1(CF)=1.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	EJM 11/2/20 HEAL No. 2010002	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/29/20	9:05	W	MW-51	3x40mL VOA	$HgCl_2$	-001	X									
10/29/20	9:45	W	MW-41	3x40mL VOA	$HgCl_2$	-002	X									
10/29/20	10:45	W	MW-32	3x40mL VOA	$HgCl_2$	-003	X									
10/29/20	10:50	W	MW-75	3x40mL VOA	$HgCl_2$	-004	X									
10/29/20	11:30	W	MW-43	3x40mL VOA	$HgCl_2$	-005	X									
10/29/20	12:15	W	MW-38	3x40mL VOA	$HgCl_2$	-006	X									
10/29/20	12:45	W	MW-34	3x40mL VOA	$HgCl_2$	-007	X									
10/29/20	13:20	W	MW-83	3x40mL VOA	$HgCl_2$	-008	X									
10/29/20	14:05	W	MW-80	3x40mL VOA	$HgCl_2$	-009	X									
10/29/20	14:50	W	MW-76	3x40mL VOA	$HgCl_2$	-010	X									
10/29/20	15:30	W	MW-77	3x40mL VOA	$HgCl_2$	-011	X									
10/29/20	16:10	W	MW-79	3x40mL VOA	$HgCl_2$	-012	X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/30/2020	1500				10/30/2020	1500
10/30/2020	1817			courier	10/31/2020	1100

Remarks:
Bill to Ensolum

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.

Chain-of-Custody Record

Client: Ensolum, LLC

Mailing Address: 606 S. Rio Grande Suite A
Aztec, NM 87410

Phone #:

email or Fax#: Ksummers@ensolum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush_____

Project Name: Largo CS

Project #: 05A1226001

Project Manager: K. Summers

Sampler: L. Daniell

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1+0.1(CF)=1.2 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2011002	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
10/29/20	16:55	W	MW-52	3x40mL VOA	$HgCl_2$	-013	X															

Remarks:

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/30/2020	1500				10/30/2020	1500
10/30/2020	1817			courier	10/31/20	1100

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.

ENSOLUM

APPENDIX G1

Site Characterization Data Qualifiers

Data Qualifier Flags (2017-2018 Site Characterization)		
Sample IDs	**Data Qualifier Flag**	**Comments/Reactions**
SB-92 @ 8'-9'	SW-846 Method 8015 Motor Oil/Lube Oil Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as an estimated value. The MRO surrogate recovery was outside the acceptable recovery range due to dilution or matrix interference.
SB-92 @ 8'-9' SB-96 @ 6'-7' SB-96 @ 12'-13' SVET-1 @ 6'-7' SVET-1 @ 12'-12.5' SVET-1 @ 13.5'-14' SVET-2 @ 7'-8' SVET-2 @ 12'-13.5' SB-102 @ 8'-9' SB-102 @ 12'-13' SB-106 @ 6'-7' SB-107 @ 11'-12' SB-112 @ 7'-8' SB-112 @ 8'-9' SB-116 @ 6'-10' SB-118 @ 8'-10.5'	SW-846 Method 8015 Gasoline Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as a positive indicator that GRO range organics are present. The GRO surrogate recovery was significantly outside the acceptable recovery range due to matrix interference.
SB-92 @ 12'-15 SB-107 @ 7'-8'	SW-846 Method 8015 Gasoline Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as a positive indicator that GRO range organics are present. The GRO surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.
SB-98 @ 16'-18'	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was significantly outside the acceptable recovery range due to matrix interference.
SB-92 @ 8'-9' SB-92 @ 12'-15' SB-96 @ 12'-13' SB-97 @ 19'-20' SB-98 @ 16'-18' SVET-1 @ 6'-7' SVET-1 @ 12'-12.5' SVET-1 @ 13.5'-14' SVET-2 @ 12'-13.5' SB-102 @ 8'-9' SB-106 @ 6'-7' SB-107 @ 11'-12' SB-112 @ 7'-8' SB-112 @ 8'-9' SB-114 @ 10'-12' SB-115 @ 8'-10' SB-115 @ 11'-12' SB-116 @ 14'-16' SB-117 @ 6'-8' SB-117 @ 14'-16' SB-118 @ 14'-16' SB-119 @ 8'-10'	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.

SB-119 @ 14'-16' SB-120 @ 8'-9' SB-120 @ 14'-16' SB-121 @ 12'-14' SB-121 @ 14'-16'		

ENSOLUM

APPENDIX G2

Interim Remediation (Area 3 Excavation) Data Qualifiers

Data Qualifier Flags (2017-2019 Area 3 Soil Remediation)		
Sample IDs	**Data Qualifier Flag**	**Comments/Reactions**
P2-T100	Sample diluted due to matrix.	The TPH and BTEX data are suitable for use as an estimated value. The sample was diluted due to matrix.
P2-T34 P2-T35 P2-T50 P2-T99	SW-846 Method 8015 Motor Oil/Lube Oil Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as an estimated value. The MRO surrogate recovery was outside the acceptable recovery range due to dilution or matrix interference.
SP-9 P1-SP2 P1-T4 P1-T5 P1-T6 P1-T7 P1-T8 P1-T9 P1-T10 P1-T11 P1-T12 P1-T13 P1-T14 P1-T15 P1-T16 P1-T17 P1-T18 P2-T29 P2-T32 P2-T34 P2-T36 P2-T37 P2-118 P2-119 P2-120 P2-123 P2-137	SW-846 Method 8015 Gasoline Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as a positive indicator that GRO range organics are present. The GRO surrogate recovery was significantly outside the acceptable recovery range due to matrix interference.
P1-T1 P2-T22 P2-T61 P2-T93 P2-121 P2-124 P2-133	SW-846 Method 8015 Gasoline Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as a positive indicator that GRO range organics are present. The GRO surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.
P2-T33 P2-T36 P2-123	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was significantly outside the acceptable recovery range due to matrix interference.

P1-T4 P1-T5 P1-T6 P1-T7 P1-T8 P1-T9 P1-T10 P1-T11 P1-T12 P1-T13 P1-T14 P1-T15 P1-T16 P1-T17 P1-T18 P2-T24 P2-T29 P2-T30 P2-T37 P2-T61 P2-T67 P2-T88 P2-T111 P2-118 P2-137	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.

ENSOLUM

APPENDIX G3

Soil Characterization (SVE/AS Installation Area 1) Data Qualifiers

Data Qualifier Flags (Area 1 Soil Characterization - SVE/AS Installation)		
Sample IDs	**Data Qualifier Flag**	**Comments/Reactions**
SVE-3 – 20.5’	SW-846 Method 8015 Gasoline Range Organics Surrogate Recovery was outside the accepted recovery limits.	The TPH data is suitable for use as a positive indicator that GRO range organics are present. The GRO surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.
SVE-3 – 20.5’	SW-846 Method 8021 BTEX Surrogate Recovery was outside the accepted recovery limits.	The BTEX data is suitable for use as an estimated value. The BTEX Surrogate recovery was slightly outside the acceptable recovery range due to matrix interference.

ENSOLUM

APPENDIX G4

2019 and 2020 Groundwater Monitoring Data Qualifiers

Data Qualifier Flag (October 2020 Groundwater Sampling Event)		
Sample ID	**Data Qualifier Flag**	**Comments/Reactions**
MW-76 (collected 10/29/2020)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference.

ENSOLUM

APPENDIX H

Executed C-138 Solid Waste Acceptance Forms

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

97057-0848

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: Largo Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
Unit Letter J Section 15 T26N R7W; 36.485365, -107.555828; Rio Arriba, NM June 2017

4. Source and Description of Waste:
Source: Hydro-excavated/excavated soil/water from associated with remediation activities.
Description: Hydrocarbon impacted soil/water associated with remediation activities for a natural gas compression facility
Estimated Volume 50 yd^3 / (bbls) Known Volume (to be entered by the operator at the end of the haul) 65 yd^3 / (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 6-2-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to complete
Generator Signature
the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, 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: Riley Industrial

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: Envito manager DATE: 6/2/17
SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-0848

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO AFE: P09015

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Aug/Sep 2017

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 7064/1780 yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 8-18-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: Riley West States Energy Contractors and subcontractors.**
HBL, Dash Hot Shot, Terraco, Prado, Flying M., Doug Foutz

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: Enviro. Manager DATE: 8/15/17

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-0848

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO AFE: P09015

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Sep/Oct 2017

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) bbls Known Volume (to be entered by the operator at the end of the haul) 5569 (yd³) bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 9-18-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: ~~Riley~~ West States Energy Contractors and subcontractors.**
Dash Hot Shot, De Herrera, Prado Farms, Flying M, HBL, Tesuco

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: Enviro Manager DATE: 9/15/17

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
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-0848

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Oct/Nov. 2017

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 8992 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 10-17-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: Riley West States Energy Contractors and subcontractors.** Flying M, Calder Service, Bash Hotshot, Prado Farms, DeHerrera, HBL

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: 10/17/17

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
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-0848

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Nov / Dec 2017

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 7128 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 11-20-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.**
Flying M, M&R, HBL, Dash Hot Shot, Prado Farms, De Herrera, Calder

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: Envirn. Manager DATE: 11/17/17

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-0848

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Dec 2017/Jan 2018

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 5892 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 12-21-17, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.**
Flying M, HBL, Dash Hot Shot, De Herrera, Prado Farms, MTK

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: Envir. Manager DATE: 12/18/17

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

97057-0848

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Jan/Feb 2018

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 6176 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 1-18-18, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.**
Flying M, Prado Farms, HBL, Deherrera, Dash Hot Shot

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: Enviro. Manager DATE: 1/18/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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 9 7057-0848

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM Feb/March 2018

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) bbls Known Volume (to be entered by the operator at the end of the haul) 7344 (yd³) bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 2-20-18, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.**
Dash Hot Shot, Flying M, HBL, Prado Farms, Deherrera, Esparza

OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: **Envirotech, Inc. Soil Remediation Facility * Permit #: NM 01-0011**
Address of Facility: **Hilltop, NM**

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Envisd. Manager DATE: 2/20/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-0848

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM March/April 2018

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 9576 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 3-20-18, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.**
Prado Farms, Flying M, Serranos, Deherrera, Esparza, Dash Hot Shot, HBL

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: Enviro. Manager DATE: 3/21/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-0948

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO PO:206489

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM April / May 2018

4. **Source and Description of Waste: Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 10,000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 3972/35 yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 4-23-18, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors.** DeHerrera, Prado Farms, Flying M HBL, NRE, Dash Hot Shot, Esparza, Serranos

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: Envirn. Manager DATE: 4/23/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-1007

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM May/June 2019

4. **Source and Description of Waste: Hydro-Excavated/Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 5000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 6625 (yd³) / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long 5-819, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
Complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: West States Energy Contractors and subcontractors** Roberts Trucking
M&R, Nash Hotshot, RTS, Ace, HBL, Prado Farms, Esparza, Ironhorse

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: Enviro Manager DATE: 5/13/19

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
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources 97057-1007

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. **Originating Site:**
Largo Compressor Station

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM June 2019

4. **Source and Description of Waste: Hydro-Excavated/Excavated soil associated with remediation activities of hydrocarbon impacted soils at a natural gas compression facility.**

Estimated Volume 5000 (yd³) / bbls Known Volume (to be entered by the operator at the end of the haul) 260 (yd³) bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long) 6-13-19, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
Complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter: ~~West States Energy~~ Contractors and subcontractors**
HBL, Rt 5, Prado Farms, Esgarza

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: Enviro Manager DATE: 6/13/19

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
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 CHARGE TO AFE: P09015

2. Originating Site:
Largo Compressor Station

3. Location of Material (Street Address, City, State or ULSTR):
Unit Letter J, Section 15, T26N, R7W; Lat 36.485365, Long. -107.555828; Rio Arriba, NM

4. Source and Description of Waste: Hydrocarbon impacted water from remediation activities at a natural gas compression facility.

Estimated Volume 5000 yd³ / (bbls) Known Volume (to be entered by the operator at the end of the haul) 4771 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long (Thomas Long) representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, (Thomas Long), representative for Enterprise Field Services, LLC authorize Basin Disposal, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Basin Disposal, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter: IMI/Riley/West States/3 Rivers

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: John Volkening TITLE: Gen Mgr DATE: 4/15/21
SIGNATURE: _____ TELEPHONE NO.:
Surface Waste Management Facility Authorized Agent 505-632-8936

ENSOLUM

APPENDIX I

Photographic Documentation

SITE PHOTOGRAPHS

2020 Interim Remediation and Groundwater Monitoring Report
Enterprise Field Services, LLC
Largo Compressor Station
Ensolum Project No. 05A1226001

ENSOLUM

Photograph 1 Photograph Description: View of the in-process excavation activities (Phase 1).	
Photograph 2 Photograph Description: View of the in-process excavation activities (Phase 1).	
Photograph 3 Photograph Description: View of the in-process excavation activities (Phase 1).	

SITE PHOTOGRAPHS

2020 Interim Remediation and Groundwater Monitoring Report
Enterprise Field Services, LLC
Largo Compressor Station
Ensolum Project No. 05A1226001

ENSOLUM

Photograph 4 Photograph Description: View of in-process excavation activities (Phase 1).	
Photograph 5 Photograph Description: View of the in-process excavation activities (Phase 1).	
Photograph 6 Photograph Description: View of the in-process excavation activities (Phase 2).	

SITE PHOTOGRAPHS

Photograph 7 Photograph Description: View of the in-process excavation activities (Phase 2).	
Photograph 8 Photograph Description: View of the in-process excavation activities (Phase 2).	
Photograph 9 Photograph Description: View of the in-process excavation activities (Phase 2).	

SITE PHOTOGRAPHS

Photograph 10 Photograph Description: View of the in-process excavation activities (Phase 2).	
Photograph 11 Photograph Description: View of the In-process excavation activities (Phase 2).	
Photograph 12 Photograph Description: View of the excavation after initial restoration.	

SITE PHOTOGRAPHS

2020 Interim Remediation and Groundwater Monitoring Report
Enterprise Field Services, LLC
Largo Compressor Station
Ensolum Project No. 05A1226001

ENSOLUM

Photograph 13 Photograph Description: View of the excavation after initial restoration.	

ENSOLUM

APPENDIX J

Regulatory Correspondence

From:	Long, Thomas
To:	"Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"; Griswold, Jim, EMNRD; "Bradford.Billings@state.nm.us"
Cc:	Miller, Greg; Stone, Brian
Subject:	FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul
Date:	Wednesday, June 19, 2019 7:41:00 AM
Attachments:	Rpt_1906848_Largo_Compressor_Station_Final_v2.pdf Site Drawing 6.14.19.pdf

Cory,

Please find the attached site sketch and lab report for the Largo Compressor Station excavation. All sample results are below the NMOCD Tier I remediation standard. This concludes the excavation activities at this facility. Enterprise will backfill the excavation with clean imported fill material. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Thursday, June 13, 2019 12:52 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Bradford.Billings@state.nm.us' <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis at the Largo Compressor Station excavation on tomorrow June 14, 2019 at 11:00 a.m. I know you are out in the field today, if you are available and in the area, we can sample today. If you have any questions or concerns, please all or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, June 7, 2019 7:09 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Bradford.Billings@state.nm.us' <Bradford.Billings@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis at the Largo Compressor Station excavation on Monday, June 10, 2019 at 10:00 a.m. If you have any questions or concerns, please all or email.

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, May 29, 2019 3:14 PM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; 'Bradford.Billings@state.nm.us' <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

Please find the attached site sketch and lab report for the Largo Compressor Station excavation. We still have to some additional excavating and then resampling in the areas of P2-118 through P2-121 and P2-123. We are still anticipating sampling tomorrow at 11:00 a.m. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
Sent: Wednesday, May 29, 2019 10:24 AM
To: 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; 'Bradford.Billings@state.nm.us' <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis at the Largo Compressor Station excavation on Thursday, May 30, 2019 at 11:00 a.m. If you have any questions or concerns, please all or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Thursday, May 23, 2019 1:51 PM
To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis at the Largo Compressor Station excavation on Tuesday, May 28, 2019 at 11:00 a.m. If you have any questions or concerns, please all or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Friday, April 26, 2019 2:24 PM
To: Long, Thomas <tjlong@eprod.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; 'Kyle G Summers' <ksummers@ensolum.com>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

Thanks for the heads up please let me know ASAP for collection of soil samples. Monday is fully booked Tuesday would work as ill be in the area.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Friday, April 26, 2019 9:40 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; 'Kyle G Summers' <ksummers@ensolum.com>
Subject: [EXT] Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Cory,

This email is to inform you that Enterprise has scheduled remediation activities (dig and haul) at Largo Compressor Station begin Monday, April 29, 2019. We have to first create a detour for the road. Then we will be hydro-excavating a perimeter around the area we will be excavating mechanically. I have attached some pictures for reference and they are also just approximations. After completion of the detour and hydro-excavating, we will begin the dig and haul. I will keep you informed as to when we will be collecting soil samples for laboratory analysis. If you have any questions, please call or email.

Sincerely

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Fields, Vanessa, EMNRD
To: Miller, Greg
Cc: Stone, Brian; Smith, Cory, EMNRD; Powell, Brandon, EMNRD; Marc Gentry; Billings, Bradford, EMNRD; Long, Thomas; ApexT.NM Kyle Summers (KSummers@ApexCos.com); Drewry, Scott; Tiffany De Leon - Enterprise Products Operating LLC (Tiffany.Deleon@EntechService.com)
Subject: RE: Largo Compressor Station
Date: Friday, November 30, 2018 10:41:07 AM

Thank you Greg.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Miller, Greg <GEMiller@eprod.com>
Sent: Friday, November 30, 2018 10:39 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Marc Gentry <MGentry@apexcos.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>; Drewry, Scott <sdrewry@eprod.com>; Tiffany De Leon - Enterprise Products Operating LLC (Tiffany.Deleon@EntechService.com) <Tiffany.Deleon@EntechService.com>
Subject: [EXT] RE: Largo Compressor Station

Vanessa, my apologies for a delayed response but I was out of the office for a few days. Let me get with our Land Group to see how they are coming along with the access/permit for our work in the county road. We are also currently finalizing our plans for the road/traffic re-route, safety planning and acquiring additional funding that is needed. I want to get the work finished ASAP but I think that (realistically) we would not be able to get started breaking ground until early or mid-January.

Once I get some hard dates on the first phase of the excavation work (road re-routing), we will send you a tentative schedule in case you want to plan on visiting the site to observe the work and progress. And, as usual, we will notify you in advance of each step of the onsite work, including the collection of soil samples.

Also, our local guys met onsite this week to try and finalize/approve the plans for the electrical connection to our groundwater remediation system in Area 1. Once the electrical connection is completed, we should be able to start up the remediation system. At the earliest, it will be two to

four weeks to get the electrical supply line installed.

Feel free to give me or Tom a call if you have any other questions or concerns.

Regards,
Greg

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Tuesday, November 27, 2018 12:22 PM
To: Miller, Greg <GEMiller@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Marc Gentry <MGentry@apexcos.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>
Subject: RE: Largo Compressor Station

Good morning Greg,

Could you please provide an update to when Enterprise will begin further remediation work on the outside fence area of the Largo Compressor Station.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Miller, Greg <GEMiller@eprod.com>
Sent: Thursday, October 18, 2018 2:47 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Marc Gentry <MGentry@apexcos.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>
Subject: [EXT] RE: Largo Compressor Station

Thank you. I will touch base with you early that week just to reconfirm everything.
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From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Sent: Thursday, October 18, 2018 3:45 PM
To: Miller, Greg <GEMiller@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Marc Gentry <MGentry@apexcos.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>
Subject: RE: Largo Compressor Station

Good afternoon Greg,

Wednesday November 7, 2018 at 10:00 is good for the Aztec office.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

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To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Marc Gentry <MGentry@apexcos.com>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>
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Brandon and myself are out of the office the week of the 29th. We will need to move to the week of November 5th.

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Please let me know if you have any further questions.

Thank you,

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Subject: RE: Largo Compressor Station

Good morning Greg,

The OCD is available at 9:00 on Monday October 22, 2018.

Thank you,

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To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Long, Thomas <tjlong@eprod.com>; ApexT.NM Kyle Summers (KSummers@ApexCos.com) <KSummers@ApexCos.com>
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Subject: RE: Largo Compressor Station

Vanessa,

Please find the attached map, summary table and lab report for the delineation activities at Largo Compressor Station. If you have any questions, please call or email.

Tom Long
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Enterprise Products Company
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Farmington, New Mexico 87401
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Cc:	Stone, Brian; Smith, Cory, EMNRD; Powell, Brandon, EMNRD; Marc Gentry; Billings, Bradford, EMNRD; Long, Thomas; ApexT.NM Kyle Summers (KSummers@ApexCos.com)
Subject:	RE: Largo Compressor Station
Date:	Thursday, October 18, 2018 2:46:37 PM

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Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
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505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Kyle Summers
To: Miller, Greg; Long, Thomas
Cc: Drewry, Scott; Tiffany DeLeon; Marc E. Gentry; Cooksey, JN
Subject: RE: Largo drilling
Date: Monday, August 20, 2018 4:23:31 PM

She stopped by the site today and I told her it was a possibility. I confirmed that with her this afternoon, but one of you should probably make it formal.

Kyle Summers
Branch Manager

O) 505-334-5200 M) 903- 821-5603
-----Original Message-----
From: Miller, Greg <GEMiller@eprod.com>
Sent: Monday, August 20, 2018 4:21 PM
To: Kyle Summers <KSummers@apexcos.com>; Long, Thomas <tjlong@eprod.com>
Cc: Drewry, Scott <sdrewry@eprod.com>; Tiffany DeLeon <tiffany.deleon@entechservice.com>; Marc E. Gentry <MGentry@apexcos.com>; Cooksey, JN <jncooksey@eprod.com>
Subject: RE: Largo drilling

Bummer....thank you!
Tom, will you be notifying the OCD/Vanessa of the date (once we confirm with the driller)?

-----Original Message-----
From: Kyle Summers <KSummers@apexcos.com>
Sent: Monday, August 20, 2018 5:12 PM
To: Miller, Greg <GEMiller@eprod.com>
Cc: Long, Thomas <tjlong@eprod.com>; Drewry, Scott <sdrewry@eprod.com>; Tiffany DeLeon <tiffany.deleon@entechservice.com>; Marc E. Gentry <MGentry@apexcos.com>; Cooksey, JN <jncooksey@eprod.com>
Subject: RE: Largo drilling

Due to driller's NCMS issues, we are postponed until August 31st (a Friday) or September 4th (Tuesday - due to holiday) depending on which one Operations prefers.

Kyle Summers
Branch Manager

O) 505-334-5200 M) 903- 821-5603
-----Original Message-----
From: Miller, Greg <GEMiller@eprod.com>
Sent: Friday, August 17, 2018 6:08 PM
To: Kyle Summers <KSummers@apexcos.com>
Cc: Long, Thomas <tjlong@eprod.com>; Drewry, Scott <sdrewry@eprod.com>; Tiffany DeLeon <tiffany.deleon@entechservice.com>; Marc E. Gentry <MGentry@apexcos.com>; Cooksey, JN <jncooksey@eprod.com>
Subject: Re: Largo drilling

Ok. Thank you. Just let us know if it gets delayed.

Gregory Miller
Enterprise Products
(713) 381-8780

On Aug 17, 2018, at 2:12 PM, Kyle Summers <KSummers@apexcos.com<mailto:KSummers@apexcos.com>> wrote:

There may be a delay in the drilling schedule. The hydrovac work will continue as planned on Monday, but the driller is trying to get some things sorted out with NCMS. If they are not cleared by Tuesday (21st) morning, the next availability for the driller is 8/31/18 (i.e. 2 weeks from today).

[https://urldefense.proofpoint.com/v2/url?u=https-3A__na01.safelinks.protection.outlook.com_-3Furl-3Dhttps-253A-252F-252Furldefense.proofpoint.com-252Fv2-252Furl-253Fu-253Dhttps-2D3A-5F-5Fmail.apexcos.com-5Fimages-5Fscale-5Fw-5F100-5Flogos-5Fapex-2D2Dlogo-2D2Dwith-2D2Durl.png-2526d-253DDwIGaQ-2526c-253D6zpojTjipf-
2DnAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4-2526r-253DZxUw-5F18OG4JN7e9fsTKMq9Mt35r-2D-5FWOKsC2hx7Z3xNM-2526m-253Ds32XMisrG3NKP57V521A3-2Dkb2mPgmwlrwVIkyiW4ATE-2526s-253DB2MCh3DdBOYz8zLJttXbB-5FVOl67CFqnG1ayvmudXNhQ-2526e-26amp-3Bdata-3D02-257C01-257CKSummers-2540apexcos.com-
257Cfe80f7ea0a1b46ad094108d606eb4889-257C75fa43a668854a3880d861c471bae2dd-257C1-257C0-257C636704004947166348-26amp-3Bsdata-3DlUv9hw3FkVhcxvr41dhSEwzWflpdtz8T67TkiR8gIpY-253D-26amp-3Breserved-3D0-3D&d=DwIGaQ&c=6zpojTjipf-
nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=wgSJrxowJftGVBvmxDpofJ6aGiSfCekmCLL_GsHNK0E&s=AZ6okuJ1GLnhyT7TQigl6iC4pOJCZWWSDJQdp5B8qh8&e=]<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Furldefense.proofpoint.com%2Fv2%2Furl%3Fu%3Dhttps-
3A__na01.safelinks.protection.outlook.com_-3Furl-3Dhttps-253A-252F-252Furldefense.proofpoint.com-252Fv2-252Furl-253Fu-253Dhttp-2D3A-5F-5Fwww.apexcos.com-5F-2526d-253DDwMFAg-2526c-253D6zpojTjipf-2DnAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4-2526r-253DZxUw-5F18OG4JN7e9fsTKMq9Mt35r-2D-5FWOKsC2hx7Z3xNM-2526m-253D9hiWIIffCZTEou-
2DyiLqYsaw9Cct31Q6eBwJjhImEzXE-2526s-253D28wIkPa8XXl-5FVAMZ4JdQOAg3nbkLnZTw9ofUEWgzp2g-2526e-26amp-3Bdata-3D02-257C01-257CKSummers-2540apexcos.com-257Cd733657e84dc430ee95208d6049eb862-257C75fa43a668854a3880d861c471bae2dd-257C1-257C0-257C636701477092719879-26amp-3Bsdata-
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Kyle Summers

Branch Manager

606 South Rio Grande, Suite A

Aztec, NM 87410

O) 505-334-5200 M) 903- 821-5603

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Add me to your contact list!

ENR Top 30 All-Environmental Firm

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From:	Miller, Greg
To:	Fields, Vanessa, EMNRD
Cc:	Long, Thomas; ApexT.NM Kyle Summers (KSummers@ApexCos.com); Stone, Brian; Drewry, Scott; Bayliss, Randolph, EMNRD; Smith, Cory, EMNRD; Powell, Brandon, EMNRD; Billings, Bradford, EMNRD; Griswold, Jim, EMNRD
Subject:	FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul
Date:	Tuesday, July 24, 2018 5:33:02 PM
Attachments:	180724 (APEX-Eprod) Boring Locations & Lab Data - Area 3 North.pdf 180723 (Apex2) Aerial Map of soil borings N of CR-379.pdf

Vanessa, please find attached the results of the soil sampling that was performed on July 2, 2018 (Analytical Table and Sample Location Map). We are currently evaluating the collection of additional samples from the south side of the road to better delineate the areas exceeding 100 mg/Kg TPH. All of the results and copies of lab reports will be provided in a report once the excavation activities have been completed.

Please feel free to contact one of us if you have any other questions or concerns.

Regards,
Greg

-----Original Message-----
From: Long, Thomas
Sent: Tuesday, July 24, 2018 2:43 PM
To: Miller, Greg <GEMiller@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Greg,

Are you going handle this?

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

-----Original Message-----
From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, July 24, 2018 1:35 PM
To: Long, Thomas
Cc: Stone, Brian; Kyle Summers (KSummers@apexcos.com); Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD; Griswold, Jim, EMNRD; Powell, Brandon, EMNRD; Drewry, Scott; Billings, Bradford, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good afternoon Tom,

Could you provide a status update from the delineation that occurred July 2, 2018.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463

vanessa.fields@state.nm.us

-----Original Message-----
From: Fields, Vanessa, EMNRD
Sent: Monday, June 18, 2018 11:56 AM
To: 'Miller, Greg' <GEMiller@eprod.com>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Long, Thomas <tjlong@eprod.com>; Drewry, Scott <sdrewry@eprod.com>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Thank you Greg.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

-----Original Message-----
From: Miller, Greg <GEMiller@eprod.com>
Sent: Monday, June 18, 2018 7:24 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Long, Thomas <tjlong@eprod.com>; Drewry, Scott <sdrewry@eprod.com>
Subject: Re: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, Tom is temporarily scheduling the field work and will email you once he has a date/time. He will include a map of the proposed boring locations.

Gregory Miller
Enterprise Products
(713) 381-8780

On Jun 15, 2018, at 3:20 PM, Fields, Vanessa, EMNRD
<Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>> wrote:

Good afternoon Greg,

Could you please provide a diagram representing where the borings will be? As well, could you let me know when AEPX will be onsite performing the borings, as I would like to be onsite.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119

Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>
Sent: Friday, June 15, 2018 11:00 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>; ApexT.NM Kyle Summers (KSummers@ApexCos.com<mailto:KSummers@ApexCos.com>) <KSummers@ApexCos.com<mailto:KSummers@ApexCos.com>>; Drewry, Scott <sdrewry@eprod.com<mailto:sdrewry@eprod.com>>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, the current plan is to spend one (1) day hand-augering with two (2) crews. We will start by augering five (5) or more borings along the north side of CR 379 (within the road ROW/easement, approx. 20' north of the road). The borings will be spaced approximately 50' apart, in an east-west line, approximately 200' in length. The borings will be advanced to groundwater, if possible, and up to two (2) soil samples will be collected from each boring for laboratory analyses based on field instrumentation (e.g. PID) readings. If impact is not observed above the capillary fringe (and hydrovac clearance is not required), additional borings may be advanced on the south side of the road to further delineate the ROW area. Based on the analytical results from these activities, additional investigation may be proposed at a later date.

If you have any questions or concerns, feel free to contact Tom, Kyle or me.

Best Regards,
Greg

Gregory E. Miller, P.G.
Supervisor, Environmental

ENTERPRISE PRODUCTS COMPANY
ENVIRONMENTAL / REMEDIATION
PO Box 4324 • Houston, Texas • 77210-4324

PH 713.381.878

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>
Sent: Thursday, June 14, 2018 10:43 AM
To: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Thank you for the update Greg. Please provide the OCD of Enterprise's delineation plan.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>
Sent: Thursday, June 14, 2018 7:40 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, Tom is conducting a training class this morning, but we have completed excavation up to the dirt road (CR 379) and are almost complete with the backfilling of the excavation. And all of the excavated soil has been hauled offsite. We are in the process of collecting soil samples on the north side of the road to characterize subsurface conditions and hopefully delineate any impacts that may exist north of the road. We will be contacting you once we have a tentative or confirmed date to complete this activity (most likely within the next week or two). If you need a more comprehensive update, feel free to contact Tom, Kyle or me.

Best regards,
Greg

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>
Sent: Thursday, June 14, 2018 8:21 AM
To: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

Could you provide a status update on the remediation of the Largo Compressor Station.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119

Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Sent: Monday, April 30, 2018 7:37 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email notify you that Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Wednesday, May 2, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Wednesday, April 04, 2018 3:03 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is a follow up to our phone conversation earlier today. Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Friday, March 6, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Tuesday, April 03, 2018 2:48 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD

(Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)';
Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Stone, Brian; Miller, Greg
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise initiated installation of the remediation system wells (SVE and AS wells) yesterday at the Largo Compressor Station Area 1. Enterprise may collect additional soil samples for laboratory analysis from within the remediation well boreholes to evaluate subsurface contaminant concentrations. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, March 13, 2018 1:16 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Yes the 20th, I looked at the calendar wrong and put the 19th.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, March 13, 2018 12:33 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Correction: The date is March 20, 2108 at 10:00 a.m.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Kyle Summers [mailto:KSummers@apexcos.com]
Sent: Tuesday, March 13, 2018 12:31 PM
To: Long, Thomas
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Did you mean March 20?

<image001.jpg><https://urldefense.proofpoint.com/v2/url?u=http-3A__www.apexcos.com_&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=VrmVdmpcIIowheX9KOreWZu_ocoijllIU3yBfhuzxnQ&e=>

Kyle Summers

Branch Manager

Apex Companies, LLC

606 South Rio Grande, Suite A

Aztec, NM 87410

O) 505-334-5200 M) 903- 821-5603

[Image removed by sender. https://urldefense.proofpoint.com/v2/url?u=https-3A__mail.apexcos.com_images_scale_w_17_logos_vCardIcon.png&d=DwIGaQ&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=wzlZlkJL4aDCEyQCSB-9KBQ_I7X4tvSD1mg0fjwh7yY&s=MTHAQmd3kSPbAZV-8AfY1rDSpQbyB9u2-IU-30tAsas&e=]
<https://urldefense.proofpoint.com/v2/url?u=https-3A__mail.apexcos.com_vcard_get_a1c1dfa553c123ba39d0ddc3b60bc4b167e3e673c0e65ac192575d2284c45792_KSummers-40apexcos.com&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=C7F_xxu_97oP1i4Wc8Ib3r-Xq0StlMtiohPF323gV8U&e=>

Add me to your contact list!

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From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>
Sent: Tuesday, March 13, 2018 12:29 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>) <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)' <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Kyle Summers <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station on Tuesday, March 30, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Wednesday, February 28, 2018 2:33 PM
To: Fields, Vanessa, EMNRD; Smith, Cory, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Bayliss, Randolph, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached updated site sketch and analytical table. If there is anything else, please let me know.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, February 27, 2018 11:59 AM
To: Long, Thomas; Smith, Cory, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Bayliss, Randolph, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

Could you please provide an updated sampling map.

Thank you,
Vanessa Fields
Environmental Specialist
Oil Conservation Division

Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, February 27, 2018 11:54 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis on Friday, March 2, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Wednesday, February 14, 2018 7:37 AM
To: 'Fields, Vanessa, EMNRD'; 'Smith, Cory, EMNRD'; 'Bayliss, Randolph, EMNRD'
Cc: Stone, Brian; Miller, Greg; 'Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)'
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached site sketch and analytical table for the Largo Compressor Station excavation. The Green Areas indicate areas in which soil samples collected were below the site specific remediation standard of 10 parts per million (ppm) Benzene, 50 ppm Combined BTEX and 100 ppm Total Petroleum Hydrocarbons (TPH). The Orange Areas are indicate areas where additional excavating is required. The areas with no color indicate no sample has been collected. We currently have a large excavation which has become a safety hazard and will create problems with future excavating activities. Enterprise requests to backfill of the areas of the excavation where sample results exhibit contaminant concentrations below the site specific remediation standards. Enterprise will install vertical markers prior to backfilling to identify the extent of the excavation. Please acknowledge if this is acceptable.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Tuesday, February 13, 2018 10:42 AM
To: 'Fields, Vanessa, EMNRD'; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Thursday will be fine. 10 a.m. ok?

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, February 13, 2018 10:33 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

My schedule is already booked for tomorrow, can we move to Thursday please.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, February 13, 2018 10:26 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Wednesday, February 14, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Monday, February 05, 2018 8:10 AM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Tuesday, February 6, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, January 31, 2018 7:14 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Sounds good, see everyone on Friday.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, January 31, 2018 7:13 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

<KSummers@apexcos.com<mailto:KSummers@apexcos.com>>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

How about Friday February 2, 2018 at 10:00 a.m.?

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, January 31, 2018 7:11 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

We will need to schedule the sampling for Friday as I already have previous engagements.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, January 31, 2018 7:09 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>
Subject: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, February 1, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company

614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

[logo]

From: Long, Thomas
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"; Brandon Powell (brandon.powell@state.nm.us); Randolph.Bayliss@state.NM.us
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com); Stone, Brian
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul
Date: Thursday, June 28, 2018 12:26:00 PM
Attachments: HA Largo.pdf
Table 3A_Area 3.pdf

Vanessa,

This email is to notify that Enterprise has scheduled soil delineation activities at Largo Compressor Station to begin Monday, July 2, 2018. I have attached a map and a data table for reference. The soil borings will be advanced utilizing a hand auger. In the event advancement of soil borings is unsuccessful with a hand auger, Enterprise may have to conduct the delineation activities with a Geoprobe at a later date. If you have any questions, please call or email.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

-----Original Message-----
From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Monday, June 18, 2018 11:56 AM
To: Miller, Greg
Cc: Stone, Brian; Kyle Summers (KSummers@apexcos.com); Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD; Griswold, Jim, EMNRD; Powell, Brandon, EMNRD; Long, Thomas; Drewry, Scott
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Thank you Greg.

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us

-----Original Message-----

From: Miller, Greg <GEMiller@eprod.com>

Sent: Monday, June 18, 2018 7:24 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Cc: Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Long, Thomas <tjlong@eprod.com>; Drewry, Scott <sdrewry@eprod.com>

Subject: Re: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, Tom is temporarily scheduling the field work and will email you once he has a date/time. He will include a map of the proposed boring locations.

Gregory Miller

Enterprise Products

(713) 381-8780

On Jun 15, 2018, at 3:20 PM, Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>> wrote:

Good afternoon Greg,

Could you please provide a diagram representing where the borings will be? As well, could you let me know when AEPX will be onsite performing the borings, as I would like to be onsite.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>

Sent: Friday, June 15, 2018 11:00 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>; ApexT.NM Kyle Summers (KSummers@ApexCos.com<mailto:KSummers@ApexCos.com>) <KSummers@ApexCos.com<mailto:KSummers@ApexCos.com>>; Drewry, Scott <sdrewry@eprod.com<mailto:sdrewry@eprod.com>>

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, the current plan is to spend one (1) day hand-augering with two (2) crews. We will start by augering five (5) or more borings along the north side of CR 379 (within the road ROW/easement, approx. 20' north of the road). The borings will be spaced approximately 50' apart, in an east-west line, approximately 200' in length. The borings will be advanced to groundwater, if possible, and up to two (2) soil samples will be collected from each boring for laboratory analyses based on field instrumentation (e.g. PID) readings. If impact is not observed above the capillary fringe (and hydrovac clearance is not required), additional borings may be advanced on the south side of the road to further delineate the ROW area. Based on the analytical results from these activities, additional investigation may be proposed at a later date.

If you have any questions or concerns, feel free to contact Tom, Kyle or me.

Best Regards,

Greg

Gregory E. Miller, P.G.

Supervisor, Environmental

ENTERPRISE PRODUCTS COMPANY

ENVIRONMENTAL / REMEDIATION

PO Box 4324 • Houston, Texas • 77210-4324

PH 713.381.878

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>

Sent: Thursday, June 14, 2018 10:43 AM

To: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Thank you for the update Greg. Please provide the OCD of Enterprise's delineation plan.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>

Sent: Thursday, June 14, 2018 7:40 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>; Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa, Tom is conducting a training class this morning, but we have completed excavation up to the dirt road (CR 379) and are almost complete with the backfilling of the excavation. And all of the excavated soil has been hauled offsite. We are in the process of collecting soil samples on the north side of the road to characterize subsurface conditions and hopefully delineate any impacts that may exist north of the road. We will be contacting you once we have a tentative or confirmed date to complete this activity (most likely within the next week or two). If you need a more comprehensive update, feel free to contact Tom, Kyle or me.

Best regards,

Greg

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>

Sent: Thursday, June 14, 2018 8:21 AM

To: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>

Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us<mailto:Jim.Griswold@state.nm.us>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

Could you provide a status update on the remediation of the Largo Compressor Station.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>

Sent: Monday, April 30, 2018 7:37 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email notify you that Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Wednesday, May 2, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Wednesday, April 04, 2018 3:03 PM

To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>

Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is a follow up to our phone conversation earlier today. Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Friday, March 6, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Tuesday, April 03, 2018 2:48 PM

To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>

Cc: Stone, Brian; Miller, Greg

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise initiated installation of the remediation system wells (SVE and AS wells) yesterday at the Largo Compressor Station Area 1. Enterprise may collect additional soil samples for laboratory analysis from within the remediation well boreholes to evaluate subsurface contaminant concentrations. If you have any questions, please call or email.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]

Sent: Tuesday, March 13, 2018 1:16 PM

To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD

Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Yes the 20th, I looked at the calendar wrong and put the 19th.

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Tuesday, March 13, 2018 12:33 PM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Correction: The date is March 20, 2108 at 10:00 a.m.

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Kyle Summers [mailto:KSummers@apexcos.com]

Sent: Tuesday, March 13, 2018 12:31 PM

To: Long, Thomas

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Did you mean March 20?

<image001.jpg><https://urldefense.proofpoint.com/v2/url?u=http-3A__www.apexcos.com_&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=VrmVdmpcIIowheX9KOreWZu_ocoijlIlU3yBfhuzxnQ&e=>

Kyle Summers

Branch Manager

Apex Companies, LLC

606 South Rio Grande, Suite A

Aztec, NM 87410

O) 505-334-5200 M) 903- 821-5603

[Image removed by sender. https://urldefense.proofpoint.com/v2/url?u=https-3A__mail.apexcos.com_images_scale_w_17_logos_vCardIcon.png&d=DwIGaQ&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=lqFRtVWI7vhDaYeNmhDVVN98xGIBMeSLtHuYmGgUyz4&s=1yxh6SHE1qz5fZ1nTc0owsLcSFxft_KB0WSQEKeTojo&e=]
<https://urldefense.proofpoint.com/v2/url?u=https-3A__mail.apexcos.com_vcard_get_a1c1dfa553c123ba39d0ddc3b60bc4b167e3e673c0e65ac192575d2284c45792_KSummers-40apexcos.com&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=C7F_xxu_97oP1i4Wc8Ib3r-Xq0StlMtiohPF323gV8U&e=>

Add me to your contact list!

Follow Apex on <image003.jpg><https://urldefense.proofpoint.com/v2/url?u=https-3A__twitter.com_ApexCos&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=IR1zsXS3iNAj2-LzdUKmQ-8H0oLzUfY2nEacIXOfMpg&e=>and Like us on <image003.jpg><https://urldefense.proofpoint.com/v2/url?u=https-3A__www.facebook.com_ApexCompaniesLLC&d=DwMF-g&c=6zpojTjipf-nAlEmob0p1NKp0XhcK4Iau5zCDf5n3i4&r=ddvZ1T9a_VnOax5oP1jlng&m=G-0gmkiREOKSyaV-3DIRFC6CccG8-7bCRcDQ3M9MiIc&s=U6VbylpCcKiWHz1lJTafgW0uqo6m6VA6CMoMn6n-hYc&e=>

From: Long, Thomas <tjlong@eprod.com<mailto:tjlong@eprod.com>>

Sent: Tuesday, March 13, 2018 12:29 PM

To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>) <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)' <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>

Cc: Kyle Summers <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station on Tuesday, March 30, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Wednesday, February 28, 2018 2:33 PM

To: Fields, Vanessa, EMNRD; Smith, Cory, EMNRD

Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Bayliss, Randolph, EMNRD

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached updated site sketch and analytical table. If there is anything else, please let me know.

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]

Sent: Tuesday, February 27, 2018 11:59 AM

To: Long, Thomas; Smith, Cory, EMNRD

Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Bayliss, Randolph, EMNRD

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

Could you please provide an updated sampling map.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Tuesday, February 27, 2018 11:54 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>

Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis on Friday, March 2, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Wednesday, February 14, 2018 7:37 AM

To: 'Fields, Vanessa, EMNRD'; 'Smith, Cory, EMNRD'; 'Bayliss, Randolph, EMNRD'

Cc: Stone, Brian; Miller, Greg; 'Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)'

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached site sketch and analytical table for the Largo Compressor Station excavation. The Green Areas indicate areas in which soil samples collected were below the site specific remediation standard of 10 parts per million (ppm) Benzene, 50 ppm Combined BTEX and 100 ppm Total Petroleum Hydrocarbons (TPH). The Orange Areas are indicate areas where additional excavating is required. The areas with no color indicate no sample has been collected. We currently have a large excavation which has become a safety hazard and will create problems with future excavating activities. Enterprise requests to backfill of the areas of the excavation where sample results exhibit contaminant concentrations below the site specific remediation standards. Enterprise will install vertical markers prior to backfilling to identify the extent of the excavation. Please acknowledge if this is acceptable.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Tuesday, February 13, 2018 10:42 AM

To: 'Fields, Vanessa, EMNRD'; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD

Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Thursday will be fine. 10 a.m. ok?

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]

Sent: Tuesday, February 13, 2018 10:33 AM

To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD

Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

My schedule is already booked for tomorrow, can we move to Thursday please.

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Tuesday, February 13, 2018 10:26 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Wednesday, February 14, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas

Sent: Monday, February 05, 2018 8:10 AM

To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>

Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Tuesday, February 6, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]

Sent: Wednesday, January 31, 2018 7:14 AM

To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD

Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Sounds good, see everyone on Friday.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Wednesday, January 31, 2018 7:13 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

How about Friday February 2, 2018 at 10:00 a.m.?

Tom Long

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]

Sent: Wednesday, January 31, 2018 7:11 AM

To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD

Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

We will need to schedule the sampling for Friday as I already have previous engagements.

Thank you,

Vanessa Fields

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 119

Cell: (505) 419-0463

vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Wednesday, January 31, 2018 7:09 AM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>

Cc: Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>

Subject: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, February 1, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Thomas J. Long

Senior Environmental Scientist

Enterprise Products Company

614 Reilly Ave.

Farmington, New Mexico 87401

505-599-2286 (office)

505-215-4727 (Cell)

tjlong@eprod.com<mailto:tjlong@eprod.com>

[logo]

From: Fields, Vanessa, EMNRD
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul
Date: Monday, April 30, 2018 7:38:39 AM

Good morning Tom,

Thank you for the notification, I will be onsite at 10:00 to witness sampling.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas <tjlong@eprod.com>
Sent: Monday, April 30, 2018 7:37 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email notify you that Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Wednesday, May 2, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)

tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, April 04, 2018 3:03 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Randolph.Bayliss@state.NM.us
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is a follow up to our phone conversation earlier today. Enterprise anticipates collecting soil samples for laboratory analysis from the Area 3 excavation on Friday, March 6, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Tuesday, April 03, 2018 2:48 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Randolph.Bayliss@state.NM.us
Cc: Stone, Brian; Miller, Greg
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise initiated installation of the remediation system wells (SVE and AS wells) yesterday at the Largo Compressor Station Area 1. Enterprise may collect additional soil samples for laboratory analysis from within the remediation well boreholes to evaluate subsurface contaminant concentrations. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, March 13, 2018 1:16 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Yes the 20th, I looked at the calendar wrong and put the 19th.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, March 13, 2018 12:33 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Correction: The date is March 20, 2108 at 10:00 a.m.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Kyle Summers [mailto:KSummers@apexcos.com]
Sent: Tuesday, March 13, 2018 12:31 PM
To: Long, Thomas
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Did you mean March 20?

Kyle Summers
Branch Manager

Apex Companies, LLC
606 South Rio Grande, Suite A
Aztec, NM 87410
O) 505-334-5200 M) 903- 821-5603

Add me to your contact list!

Follow Apex on and Like us on

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, March 13, 2018 12:29 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us) <Vanessa.Fields@state.nm.us>; 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)' <Cory.Smith@state.nm.us>; Randolph.Bayliss@state.NM.us
Cc: Kyle Summers <KSummers@apexcos.com>; Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station on Tuesday, March 30, 2018 at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, February 28, 2018 2:33 PM
To: Fields, Vanessa, EMNRD; Smith, Cory, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com); Stone, Brian; Bayliss, Randolph, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached updated site sketch and analytical table. If there is anything else, please let me know.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, February 27, 2018 11:59 AM
To: Long, Thomas; Smith, Cory, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com); Stone, Brian; Bayliss, Randolph, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

Could you please provide an updated sampling map.

Thank you,
Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, February 27, 2018 11:54 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>; Stone, Brian <bmstone@eprod.com>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis on Friday, March 2, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Wednesday, February 14, 2018 7:37 AM
To: 'Fields, Vanessa, EMNRD'; 'Smith, Cory, EMNRD'; 'Bayliss, Randolph, EMNRD'
Cc: Stone, Brian; Miller, Greg; 'Kyle Summers (KSummers@apexcos.com)'
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached site sketch and analytical table for the Largo Compressor Station excavation. The Green Areas indicate areas in which soil samples collected were below the site specific remediation standard of 10 parts per million (ppm) Benzene, 50 ppm Combined BTEX and 100 ppm Total Petroleum Hydrocarbons (TPH). The Orange Areas are indicate areas where additional excavating is required. The areas with no color indicate no sample has been collected. We currently have a large excavation which has become a safety hazard and will create problems with future excavating activities. Enterprise requests to backfill of the areas of the excavation where sample results exhibit contaminant concentrations below the site specific remediation standards. Enterprise will install vertical markers prior to backfilling to identify the extent of the excavation. Please acknowledge if this is acceptable.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Tuesday, February 13, 2018 10:42 AM
To: 'Fields, Vanessa, EMNRD'; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Thursday will be fine. 10 a.m. ok?

Tom Long
505-599-2286 (office)

505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, February 13, 2018 10:33 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

My schedule is already booked for tomorrow, can we move to Thursday please.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, February 13, 2018 10:26 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Wednesday, February 14, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long

505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Monday, February 05, 2018 8:10 AM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Randolph.Bayliss@state.NM.us
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, Tuesday, February 6, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, January 31, 2018 7:14 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Sounds good, see everyone on Friday.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, January 31, 2018 7:13 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

How about Friday February 2, 2018 at 10:00 a.m.?

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, January 31, 2018 7:11 AM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Stone, Brian; Miller, Greg; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

We will need to schedule the sampling for Friday as I already have previous engagements.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]

Sent: Wednesday, January 31, 2018 7:09 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Stone, Brian <bmstone@eprod.com>; Miller, Greg <GEMiller@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis tomorrow, February 1, 2018 at 10:00 a.m. at Largo Compressor Station Please acknowledge this an acceptable time.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD
To: Long, Thomas; Bayliss, Randolph, EMNRD; Smith, Cory, EMNRD
Cc: Miller, Greg; Stone, Brian
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul
Date: Friday, December 8, 2017 9:41:25 AM

Thank you Tom. I will be on-site to witness the samples.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Friday, December 8, 2017 9:35 AM
To: Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples from laboratory analysis on at Largo Compressor Station on Monday, December 11, 2017 at 1:00 p.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Friday, November 17, 2017 7:20 AM
To: 'Fields, Vanessa, EMNRD'; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)

Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Please find the attached site sketch of the anticipated sampling locations. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, November 16, 2017 3:25 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good afternoon Tom,

Could you please provide a sketch (site diagram) of where the samples will be collected from?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Thursday, November 16, 2017 3:23 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise has scheduled soil sampling at Largo Compressor Station for Monday, November 20, 2017 at 11:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Monday, November 13, 2017 9:18 AM
To: Long, Thomas; Powell, Brandon, EMNRD; Bayliss, Randolph, EMNRD; Smith, Cory, EMNRD
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

Could you please send over an updated sampling diagram? As well, could you provide a status update on the current excavation?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, October 24, 2017 2:17 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>

Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station at 11 a.m. on Thursday, October 26, 2017. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Long, Thomas
Sent: Thursday, October 19, 2017 1:47 PM
To: 'Fields, Vanessa, EMNRD'; Bayliss, Randolph, EMNRD; Powell, Brandon, EMNRD
Cc: Miller, Greg; Stone, Brian; Smith, Cory, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

Change in plans. No sampling at Largo tomorrow.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, October 19, 2017 1:05 PM
To: Long, Thomas; Bayliss, Randolph, EMNRD; Powell, Brandon, EMNRD
Cc: Miller, Greg; Stone, Brian; Smith, Cory, EMNRD
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Tom,

We will need to sample a little sooner in the day due to the drive time out to Largo.

Will 1:00 work?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Thursday, October 19, 2017 12:05 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

I think we will ready to sample around 2 p.m. tomorrow. Let me know if that works for you.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, October 19, 2017 11:43 AM
To: Long, Thomas; Bayliss, Randolph, EMNRD; Powell, Brandon, EMNRD
Cc: Miller, Greg; Stone, Brian
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

Thank you for the update. Please let me know when sampling is planned.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, October 17, 2017 2:42 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>
Subject: FW: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa,

This email is to notify you that Enterprise has set the frac tank and pump for free product removal/dewatering of the excavation and will resume excavating contaminated soil beginning tomorrow at Largo Compressor Station. We may be collecting soil samples on Thursday. I will keep you informed at to sampling times. If you have any questions, please call or email.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, October 04, 2017 9:55 AM
To: Long, Thomas; Bayliss, Randolph, EMNRD; Powell, Brandon, EMNRD
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com)
Subject: RE: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Good morning Tom,

Could you please provide the SDS for three referenced products?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119

Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, October 4, 2017 9:44 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>
Subject: Largo Compressor Station Remediation (3RP-1001) - Phase 2 Dig&Haul

Vanessa/Randolph,

To accelerate future groundwater remediation efforts, Enterprise requests that the NMOCD pre-approve the application of three possible amendments (described below) within open excavations at the Largo Compressor Station Area 3 Remediation Site. At Enterprise's discretion these amendments may be applied directly to the groundwater within the excavation or immediately above the groundwater interface if excavation stability prevents direct groundwater application.

1.0 ORC-A

The ORC-A product can be applied in either a slurry or pelletized form. Pellets would be applied utilizing the excavator bucket, and the slurry would be applied utilizing a hose placed near the excavation floor and then mixed with the excavator bucket. ORC-A is a calcium oxy-hydroxide and potassium phosphate material that produces a timed release of oxygen lasting up to 12 months. This increase in available oxygen significantly accelerates aerobic degradation of petroleum hydrocarbon contaminants.

If utilized, the anticipated application rate may be up to 0.3 lbs/ft^2 of exposed water. ORC-A does not produce any harmful by-products, though there would be a slight localized rise in the pH of groundwater within the area of application.

2.0 Activated Sodium Persulfate

Activated sodium persulfate is most commonly applied as a solution (typically 10 percent by weight) utilizing a hose placed near the excavation floor and then mixed with the excavator bucket. When dissolved into water and activated by a catalyst, sodium persulfate dissociates to create persulfate anions, which are strong oxidants that directly oxidize petroleum compounds. Sulfate salts left over after the active chemical oxidation stage would also serve as a long-term electron acceptors for anaerobic biodegradation of petroleum compounds, combining with the naturally high dissolved sulfate conditions in groundwater at the site.

If utilized, the anticipated application rate of raw sodium persulfate may be up to 0.01 lbs/ft^2 of

exposed water, which would equate to about 0.02 lbs of commercial product per ft^2 of exposed water. The decomposition of persulfate can lead to localized low-pH conditions, and persulfate can degrade soft metals such as copper and brass. High dissolved sulfate concentrations (already naturally present) in biologically reducing environments can sometimes lead to the generation of hydrogen sulfide gas.

3.0 Calcium Peroxide

Calcium peroxide is most commonly applied as a slurry (typically 20 percent by weight) utilizing a hose placed near the excavation floor and then mixed with the excavator bucket. When dissolved into water, calcium peroxide dissociates to release oxygen, and a much smaller amount of peroxide anions, depending on the pH of the groundwater. In this application, the main benefit of calcium peroxide amendment to the excavation pit water would be as an accelerator of biological degradation of petroleum compounds.

If utilized, the anticipated application rate of raw calcium peroxide may be up to 0.02 lbs/ft^2 of exposed water, which would equate to about 0.05 lbs of commercial product per ft^2 of exposed water. The decomposition by-products of calcium peroxide are benign calcium carbonate precipitates.

Post-application testing for any of the potential amendments would include field measurements of dissolved oxygen in water and carbon dioxide content in soil gas at the nearest monitoring wells. Open excavations can be immediately backfilled following the application of the amendments.

Please respond to this request at your earliest convenience.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

Enterprise Products

From: Long, Thomas
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); "Smith, Cory, EMNRD (Cory.Smith@state.nm.us)"; Randolph.Bayliss@state.NM.us
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com); Stone, Brian
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul
Date: Monday, September 18, 2017 1:35:00 PM

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station tomorrow at 12 p.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

-----Original Message-----
From: Long, Thomas
Sent: Wednesday, September 13, 2017 10:34 AM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us)'; Randolph.Bayliss@state.NM.us
Cc: Stone, Brian; Kyle Summers (KSummers@apexcos.com); Miller, Greg
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

This email is to notify you that Enterprise will be collecting soil samples for laboratory analysis at Largo Compressor Station at 11:00 a.m. tomorrow. Please call or email if you have questions.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

-----Original Message-----
From: Long, Thomas
Sent: Thursday, August 31, 2017 7:23 AM
To: 'Fields, Vanessa, EMNRD'
Cc: Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD; Kyle Summers (KSummers@apexcos.com); Miller, Greg; Stone, Brian; Powell, Brandon, EMNRD
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

Thank you.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com

-----Original Message-----
From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Wednesday, August 30, 2017 3:01 PM
To: Long, Thomas
Cc: Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD; Kyle Summers (KSummers@apexcos.com); Miller, Greg; Stone, Brian; Powell, Brandon, EMNRD
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

That works, I will put on the OCD calendar for 10:00.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

-----Original Message-----
From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, August 30, 2017 3:00 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us>; Kyle Summers (KSummers@apexcos.com) <KSummers@apexcos.com>; Miller, Greg <GEMiller@eprod.com>; Stone, Brian <bmstone@eprod.com>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: Re: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

Can we make it 10:00 a.m. instead?

Tom Long

On Aug 30, 2017, at 2:54 PM, Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>> wrote:

Good afternoon Tom,

Thank you for the notification, my or one of my colleagues will be onsite at 11:00 on Friday September 1, 2017 to witness sampling.

Please include Brandon Powell on any Largo Compressor Station e-mails.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Wednesday, August 30, 2017 1:40 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis on Friday, September 1, 2017 at 11:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, August 24, 2017 2:50 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Powell, Brandon, EMNRD
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Thank you Tom.

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119

Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Thursday, August 24, 2017 2:12 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

We will make 11:00 a.m. work. Thanks.

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, August 24, 2017 2:11 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Powell, Brandon, EMNRD
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Good afternoon Tom,

We will need the sampling to be at 11:00 am tomorrow as I have made prior arrangements with other operators. Please provide 24 hour notice for sampling events at the Largo Compressor Station.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Thursday, August 24, 2017 2:03 PM

To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>) <KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian <bmstone@eprod.com<mailto:bmstone@eprod.com>>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us<mailto:Brandon.Powell@state.nm.us>>
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa/Randolph,

This email is to notify you that Enterprise anticipates collecting soil samples from the west wall of the excavation and another overburden stockpile for laboratory analysis. Soil sampling activities will begin tomorrow at 9:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Thursday, August 24, 2017 1:57 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian; Powell, Brandon, EMNRD
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Tom,

Thank you for the update and analytical results.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Thursday, August 24, 2017 1:47 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers

(KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
<KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian
<bmstone@eprod.com<mailto:bmstone@eprod.com>>
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

Please find the attached lab report for the soil samples collected yesterday from the southern excavation side walls, the eastern excavation side walls and stockpiled overburden. All sample results are below the site specific remediation standard. Enterprise will use the stockpile overburden for backfill material to support the active pipelines. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Fields, Vanessa, EMNRD [mailto:Vanessa.Fields@state.nm.us]
Sent: Tuesday, August 22, 2017 2:23 PM
To: Long, Thomas; Smith, Cory, EMNRD; Bayliss, Randolph, EMNRD
Cc: Miller, Greg; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>); Stone, Brian
Subject: RE: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Tom,

Thank you for the notification. I will be at the sampling tomorrow.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us<mailto:vanessa.fields@state.nm.us>

From: Long, Thomas [mailto:tjlong@eprod.com]
Sent: Tuesday, August 22, 2017 2:14 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>>; Bayliss, Randolph, EMNRD <Randolph.Bayliss@state.nm.us<mailto:Randolph.Bayliss@state.nm.us>>
Cc: Miller, Greg <GEMiller@eprod.com<mailto:GEMiller@eprod.com>>; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
<KSummers@apexcos.com<mailto:KSummers@apexcos.com>>; Stone, Brian
<bmstone@eprod.com<mailto:bmstone@eprod.com>>
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa/Randolph,

This email is to notify you that Enterprise anticipates collecting soil samples from the southern excavation side walls and the eastern excavation side walls and base. In addition, un-impacted stockpiled overburden will be sampled. Soil sampling activities will begin tomorrow at 10:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Tuesday, August 22, 2017 7:59 AM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

This email is a follow up to our phone conversation(s) this morning. Enterprise will not be collecting soil samples from below the water table. Also, Enterprise will not be dewatering the entire excavation, but Enterprise will pump water out when an oily sheen is visible on the surface of the water. All water will be properly disposed at Basin Disposal in Bloomfield, NM. Enterprise will also use clean soil from the former treatment cells as backfill material to place under the active well tie for structural support. There may be multiple locations were this soil will be used as structural support and may intersect an excavation side wall that still needs to be remediated. Please confirm that you agree.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

<image001.gif>

From: Long, Thomas
Sent: Monday, August 21, 2017 2:15 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Miller, Greg; Stone, Brian; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanesssa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis from the

excavation on Tuesday, August 21, 2017 at 1:00 p.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Friday, August 18, 2017 2:09 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>
Cc: Stone, Brian; Miller, Greg
Subject: FW: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa,

This email is to notify you that Enterprise anticipates collecting soil samples for laboratory analysis from the base of the excavation on Monday, August 21, 2017 at 11:00 a.m. If you have any questions, please call or email.

Sincerely,

Tom Long
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

From: Long, Thomas
Sent: Wednesday, August 16, 2017 1:25 PM
To: Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us<mailto:Vanessa.Fields@state.nm.us>); 'Smith, Cory, EMNRD (Cory.Smith@state.nm.us<mailto:Cory.Smith@state.nm.us>)'; Randolph.Bayliss@state.NM.us<mailto:Randolph.Bayliss@state.NM.us>; jim.griswold@state.nm.us<mailto:jim.griswold@state.nm.us>
Cc: Miller, Greg; Stone, Brian; Seale, Runell; Sartor, Rodney; Fields, Jon; Kyle Summers (KSummers@apexcos.com<mailto:KSummers@apexcos.com>)
Subject: Largo Compressor Station Remediation - Phase 1 Dig&Haul

Vanessa/Randolph,

This email is to notify you that Enterprise has scheduled the Phase I (Dig & Haul) remediation activities at Largo Compressor Station to begin Friday, August 18, 2017. Hydro-excavating activities for locating underground utilities are in progress and will be completed by tomorrow. Enterprise will keep you informed of the progression of the excavation and will inform you in advance of the collection of soil samples for laboratory analysis. If you have any questions, please call or email.

Sincerely,

Thomas J. Long

Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401
505-599-2286 (office)
505-215-4727 (Cell)
tjlong@eprod.com<mailto:tjlong@eprod.com>

<image001.gif>

ENSOLUM

APPENDIX K

Annual Remediation System Operations Report

SOLI technical

December 23, 2020

Mr. Kyle Summers
Ensolum, LLC
606 South Rio Grande, Suite A
Aztec, New Mexico 87410

Subject: **Annual Remediation System Operations Report**
Largo Compressor Station
Bloomfield, New Mexico

Dear Mr. Summers,

Soli Technical, LLC (Soli) is providing this startup and annual operations and maintenance (O&M) report for the remediation system at the above-referenced site. This report provides a summary of system installation, startup, and operations through December 8, 2020.

As background, soil vapor extraction (SVE) pilot testing was conducted on July 25 and 26, 2017, to evaluate the technology as an option for the remediation of soil and groundwater at Area 1 of the Largo Compressor Station (Site). The results of the SVE pilot test were presented in the *Soil Remediation Plan Amendment*, dated August 14, 2017, demonstrating that soil in the vadose zone and smear zone could be feasibly remediated using SVE at the Site. The intent to achieve full remediation of saturated zone soil and groundwater led to a remedy design including a full-scale SVE system coupled with air sparging to depths of known saturated zone soil impacts, as documented in the *Soil Vapor Extraction and Air Sparging Work Plan*, dated September 15, 2017.

SVE and Air Sparge System Installation

Implementation of the SVE and air sparge remedy began with the installation of seven SVE wells and six air sparge wells in April 2018. SVE wells were constructed of 2-inch diameter polyvinyl chloride (PVC) casings, generally screened between 6 and 22 feet below ground surface (bgs) to target soil impacts within the unsaturated zone and provide capture of volatilized hydrocarbons from the saturated zone. Air sparge wells were constructed of 2-inch PVC casings, generally screened between 24 and 28 feet bgs to target saturated soil impacts at depths of up to 25 feet bgs and volatilize dissolved hydrocarbon impacts. Boring and well completion logs are attached. A list of wells and screen intervals is included in **Table 1**.

Trenching was conducted in June 2018 to install underground system piping to connect remediation wells to the planned remediation system enclosure. The prefabricated system enclosure was installed at the Site in June 2018. The enclosure includes a positive-displacement SVE blower, support equipment, and manifold to allow individual flow and vacuum control for each SVE well. The enclosure also includes a rotary vane air sparge compressor, support equipment, and manifold to allow individual flow and pressure control for each air sparge well. Remediation system process diagrams and an enclosure layout are included as **Figures 1** through **Figure 3**. Final electrical connections were initiated in August 2019.

Remediation System Startup, Operation, and Emissions Monitoring

Remediation system startup was performed on December 11-12, 2019. Startup procedures included individual testing of each remediation system well to verify proper installation and reasonable flow and pressure/vacuum ranges for combined operation. All SVE wells were then tested in combined operation to establish overall system operational settings and alarm limits, followed by the same procedure for the air sparge system. At the conclusion of startup activities on December 12, 2019, combined remediation system operation officially began and a baseline emissions sample was collected from the SVE discharge.

Remediation system operational data are presented in **Tables 2** through **4**. SVE well flow rates are maintained between 10 and 30 cubic feet per minute (cfm) at applied vacuums between 10 and 20 inches of water column (inWC). The total SVE system flow rate is generally in the range of 150 to 200 cfm. SVE flows and vacuums are intentionally kept near the low range of reasonable operation to minimize water entrainment and maximize continuous run time. The SVE system is designed to operate approximately 16 to 24 hours per day.

Air sparge well flow rates are generally maintained between 2 and 10 cfm at applied pressures between 8 and 12 pounds per square inch (psi). The total air sparge system flow rate is generally in the range of 15 to 25 cfm. System flow rates are influenced by changing water table elevations (impacting available screen intervals and head resistance to flow), water entrainment, and operational temperatures. The air sparge system is designed to cycle on for 30 minutes within each 2-hour period. Cycling of the sparge wells encourages mixing within the saturated zone and reduces the prevalence of flow channeling that might otherwise negatively affect radius of influence.

Emissions from the SVE system have been monitored on a consistent schedule since startup on December 12, 2019. Laboratory samples were collected at startup, monthly during the first quarter of system operation, and quarterly since then, per industry standard. Hydrocarbon concentrations in SVE offgas were initially 9,780 milligrams per cubic meter (mg/m^3), and rapidly declined on a typical exponential rate to a concentration of 216 mg/m^3 after approximately one year of operation (most recent sample on December 8, 2020). Total emissions for the first year of operation are calculated to be approximately 4,155 pounds of hydrocarbons as presented in the **Table 5** and **Chart 1**.

Routine operations and maintenance visits are scoped approximately once per month. System alarm conditions and notifications are relayed to project personnel via a remote telemetry cellular interface.

Sincerely,

W. Catt Wilson, P.E.
Principal Engineer

Enclosures, as noted above

TABLE 1

Well Screen Data

Well	Screen length per log (ft)	Total depth (ft btoc)	Depth to water (ft btoc) at startup
SVE-1	15.00	20.89	19.51
SVE-2	15.00	20.87	19.43
SVE-3	15.00	20.54	19.52
SVE-4	15.00	20.80	19.54
SVE-5	15.00	21.00	18.78
SVE-6	15.00	20.81	18.82
SVE-7	15.00	20.67	19.30
AS-1	2.00	26.54	18.92
AS-2	2.00	26.51	18.82
AS-3	2.00	26.66	18.68
AS-4	2.00	25.68	18.85
AS-5	2.00	26.19	18.64
AS-6	2.00	27.11	18.51

Notes:

btoc	below top of casing
ft	feet

TABLE 2

Control Panel Settings

Date	Time	SVE hour meter	SVE timer setting	AS hour meter	AS Sol. 1 hour meter	AS Sol. 1 setting	AS Sol. 2 hour meter	AS Sol. 2 setting
12/12/2019	830	32646.9	24hr	31413.6	31409.7	24hr	31405.9	24hr
1/20/2020	1140	33495.5	24hr	32261.7	32257.8	24hr	32254.1	24hr
2/18/2020	920	34189.0	24hr	32953.9	32950.1	30 min on, 90 min off	32946.4	30 min on, 90 min off
5/6/2020	1230	34299.0	24hr	32989.5	32998.6	30 min on, 90 min off	32975.4	30 min on, 90 min off
6/24/2020	820	35468.0	24hr	33345.9	33259.8	30 min on, 90 min off	33264.1	30 min on, 90 min off
8/18/2020	820	36459.7	24hr	33646.5	33496.8	30 min on, 90 min off	33508.3	30 min on, 90 min off
9/22/2020	1205	36541	24hr	33671.6	33543	30 min on, 90 min off	33556.3	30 min on, 90 min off
10/21/2020	930	37,234	24hr	33,842	--	30 min on, 90 min off	--	30 min on, 90 min off
12/8/2020	810	38386	24hr	34124	33990	30 min on, 90 min off	34014	30 min on, 90 min off

Notes:

AS	air sparge
hr	hour
Sol.	solenoid
SVE	soil vapor extraction
--	reading not taken

TABLE 3

SVE Operational Data

Date	Time	Run time meter	KO Inlet Vac. (in WC)	Blower Inlet Vac. (in WC)	Disch. Temp. (F)	KO Flow (cfm)	Disch. Flow (cfm)	Total PID	SVE-1			SVE-2			SVE-3			SVE-4			SVE-5			SVE-6			SVE-7		
									Vac.	Flow	PID	Vac.	Flow	PID	Vac.	Flow	PID	Vac.	Flow	PID	Vac.	Flow	PID	Vac.	Flow	PID	Vac.	Flow	PID
12/12/2019	840	32647	32	43	100	225	250	369.1	20	24	381.5	18	23	384.7	19	24	105.4	20	10	163.3	18	18	174.0	18	37	744.7	10	20	605.6
1/20/2020	1140	33496	36	46	105	200	250	186	16	16	--	18	28	--	22	27	--	17	8	--	18	23	--	13	33	--	10	20	--
2/18/2020	920	34189	32	35	90	260	250	98	32	36	277.4	26	37	38.4	16	27	13.7	28	19	97.4	22	20	1.0	16	34	53.6	20	24	106.2
5/6/2020	1115	34299	16	25	102	150	265	250	18	13	--	19	23	--	13	23	--	18	8	--	17	16	--	17	31	--	5	16	--
6/24/2020	1110	35471	39	50	132	150	240	37.6	21	12	120.8	20	23	54.2	20	48	20.1	10	20	82.0	20	20	9.9	20	45	45.0	20	39	99.7
8/18/2020	1108	36460	30	40	130	175	250	70.6	14	15	26.2	18	22	30.6	18	32	52.9	17	9	198	18	16	85.6	16	37	85	17	23	87.3
9/22/2020	1211	36541	30	40	105	175	250	--	18	14	--	16	22	--	18	38	--	16	8	--	14	10	--	17	39	--	16	30	--
10/21/2020	930	37234	35	40	100	180	250	28.3	19	15	203.1	19	22	131.1	18	39	30.6	18	9	39.7	15	11	0	19	37	84.3	18	32	39.8
12/8/2020	1104	38386	30	42	80	190	250	22.6	18	12	15.4	12	20	16	10	28	1.6	19	10	94.6	17	14	18.6	12	24	19.7	16	30	42

Notes:

cfm	cubic feet per minute
Disch.	discharge
F	degrees fahrenheit
inWC	inches of water column
KO	flow measured at knockout tank (pre bleed)
PID	hydrocarbon vapor concentration by photoionization detector
SVE	soil vapor extraction well
Temp.	temperature
Vac.	vacuum
--	reading not taken

TABLE 4

Air Sparge Operational Data

Date	Time	Run time meter	Outlet Temp. (F)	Outlet Press. (psi)	Right Manifold Press. (psi)	Left Manifold Press. (psi)	Main Flow (cfm)	Cumulative manifold flow (cfm)	AS-1		AS-2		AS-3		AS-4		AS-5		AS-6	
									Flow	Press.	Flow	Press.	Flow	Press.	Flow	Press.	Flow	Press.	Flow	Press.
12/12/2019	830	31414	175	10.5	--	--	45	36-39	8	7.5	5-6	5.5	5-6	6.9	6-7	7.5	6	5.5	6	7
1/20/2020	1140	32262	190	10.6	11.5	10.6	45	35.5	6.5	7.5	5.5	5	5.5	7	6.5	7.7	5	6.1	6.5	6.8
2/18/2020	950	32954	170	9.4	9.4	8.5	46	39	8.3	6.3	5	4.5	6.7	5.2	7.5	6.4	5.5	5	6	5.6
5/6/2020	1200	32998	130	12.5	12.7	--	39	12.5	--	--	3	10	5.5	9	--	--	--	--	4	10.5
5/6/2020	1215	32999	140	11	--	10	36	16	7	8.2	--	--	--	--	4	9.5	5	7.5	--	--
6/24/2020	850	33346	82	11	11.9	11	32	--	0	10.9	0	10.6	0	10.4	5.1	10	0	10.4	0	10.7
6/24/2020	1205	--	--	--	--	--	--	--	<5	--	<5	--	0	--	--	--	<5	--	<5	--
8/18/2020	1130	33646	90	11	11	8.5	29	19.5	2	13	2.5	12	3	12.6	2	11	7	8	3	12.5
9/22/2020	1219	33672	80	11	--	10.4	36	16.5	4	9.9	--	--	--	--	6	10	6.5	9.5	--	--
9/22/2020	1219	33672	80	12.5	12.5	--	34	15.5	--	--	2	11.5	8.5	11	--	--	--	--	5	11.5
10/21/2020	930	33842	--	--	--	--	--	--	0	8.5	7.5	8.2	1.5	8.5	10.5	8.5	1	8.5	4	8.5
12/8/2020	810	34124	160	10.5	11	10	37	24.5	2	9.5	8	9.8	2	10	8.5	10	1	10	3	10

Notes:

AS	air sparge well
cfm	cubic feet per minute
F	degrees fahrenheit
Press.	pressure
psi	pounds per square inch
Temp.	temperature
Vac.	vacuum
--	reading not taken

TABLE 5

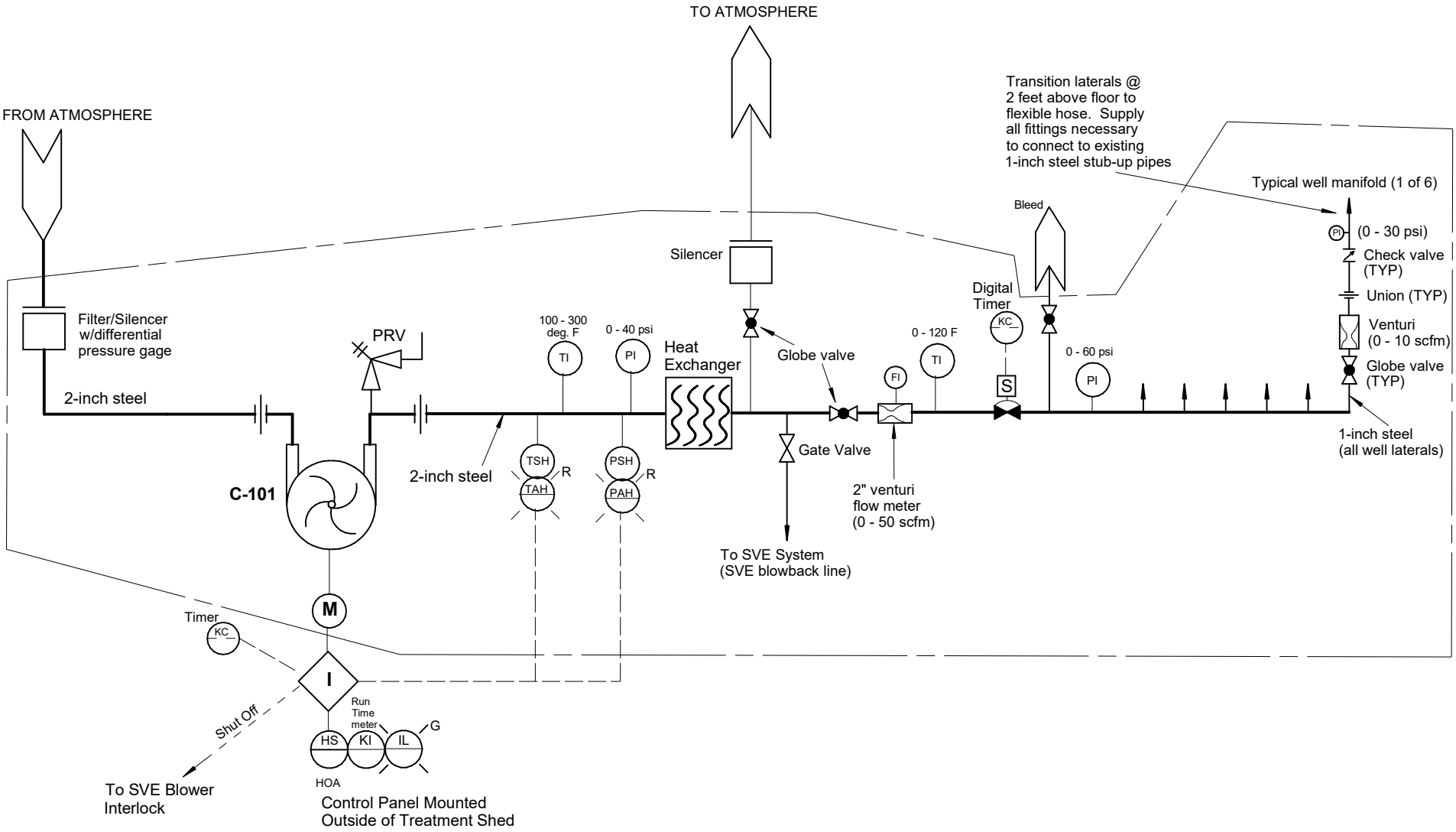
Emissions Data

Date	SVE hour meter reading	Run Time hours	GRO conc (ug/m^3)	Flow Rate (cfm)	Emitted GRO within period (lbs)	Cumulative GRO emitted (lbs)
12/12/2019	32647	19	9,780,000	146	102	102
1/20/2020	33496	868	2,140,000	145	2748	2,850
2/18/2020	34189	1561	759,000	193	727	3,577
5/6/2020	34299	1671	241,000	119	25	3,601
8/18/2020	36460	3832	264,000	154	315	3,916
12/8/2020	38386	5758	216,000	138	239	4,155
3/8/2021		7918	140,229	150	216	4,371
6/6/2021		10078	91,038	150	140	4,512
9/4/2021		12238	59,103	150	91	4,603
12/3/2021		14398	38,370	150	59	4,662
3/3/2022		16558	24,910	150	38	4,700
6/1/2022		18718	16,172	150	25	4,725
8/30/2022		20878	10,499	150	16	4,742
11/28/2022	projected	23038	6,816	150	11	4,752
2/26/2023		25198	4,425	150	7	4,759
5/27/2023		27358	2,873	150	4	4,763
8/25/2023		29518	1,865	150	3	4,766
11/23/2023		31678	1,211	150	2	4,768
2/21/2024		33838	786	150	1	4,769
5/21/2024		35998	510	150	1	4,770

Notes:

cfm	cubic feet per minute
GRO	gasoline range organics
lbs	pounds
ug/m^3	micrograms per cubic meter

Figure 1



C-101 Sparge Compressor

Type: Rotary Vane
Model: Becker VT 4.4
Spec: 40 scfm @ 25 psig at 6,100 feet above mean sea level, ambient temp = -20 F to 115 deg F

Notes:

1. Compressor selection shall be confirmed as adequate.
2. Other system components shall be selected to reduce maintenance.
3. Ensure that venturi meter position allows minimum before and after pipe runs per vendor recommendations.
4. Ensure that selected compressor specifications allow for flows in scfm that can be achieved at an elevation of 6,100 feet AMSL.
5. All equipment to be installed inside a heated and ventilated shed suitable for maintaining optimum temps for equipment and O&M personnel.

Figure 2

B-101 SVE Blower

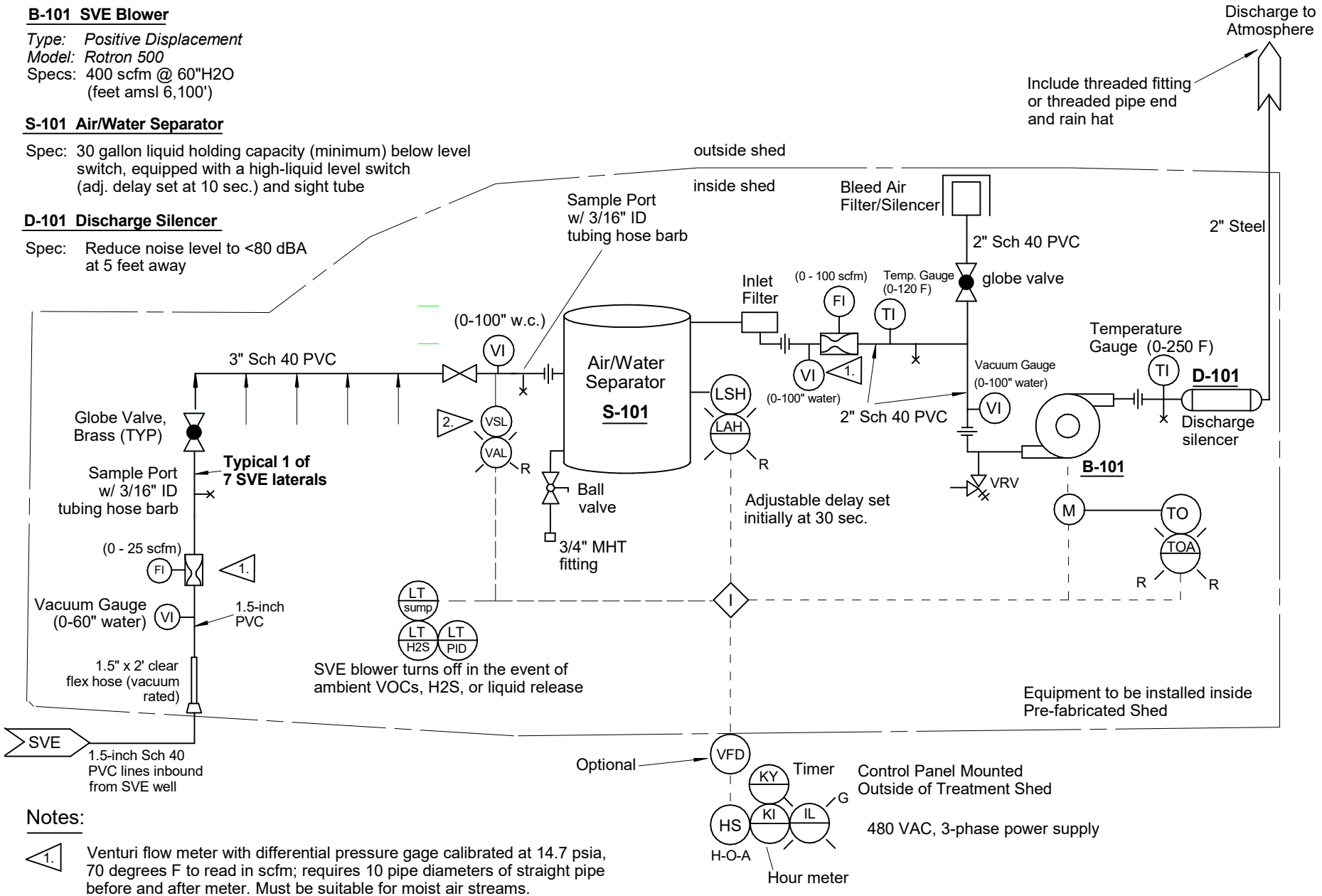
Type: Positive Displacement
Model: Rotron 500
Specs: 400 scfm @ 60"H2O
(feet amsl 6,100')

S-101 Air/Water Separator

Spec: 30 gallon liquid holding capacity (minimum) below level switch, equipped with a high-liquid level switch (adj. delay set at 10 sec.) and sight tube

D-101 Discharge Silencer

Spec: Reduce noise level to <80 dBA at 5 feet away



Notes:

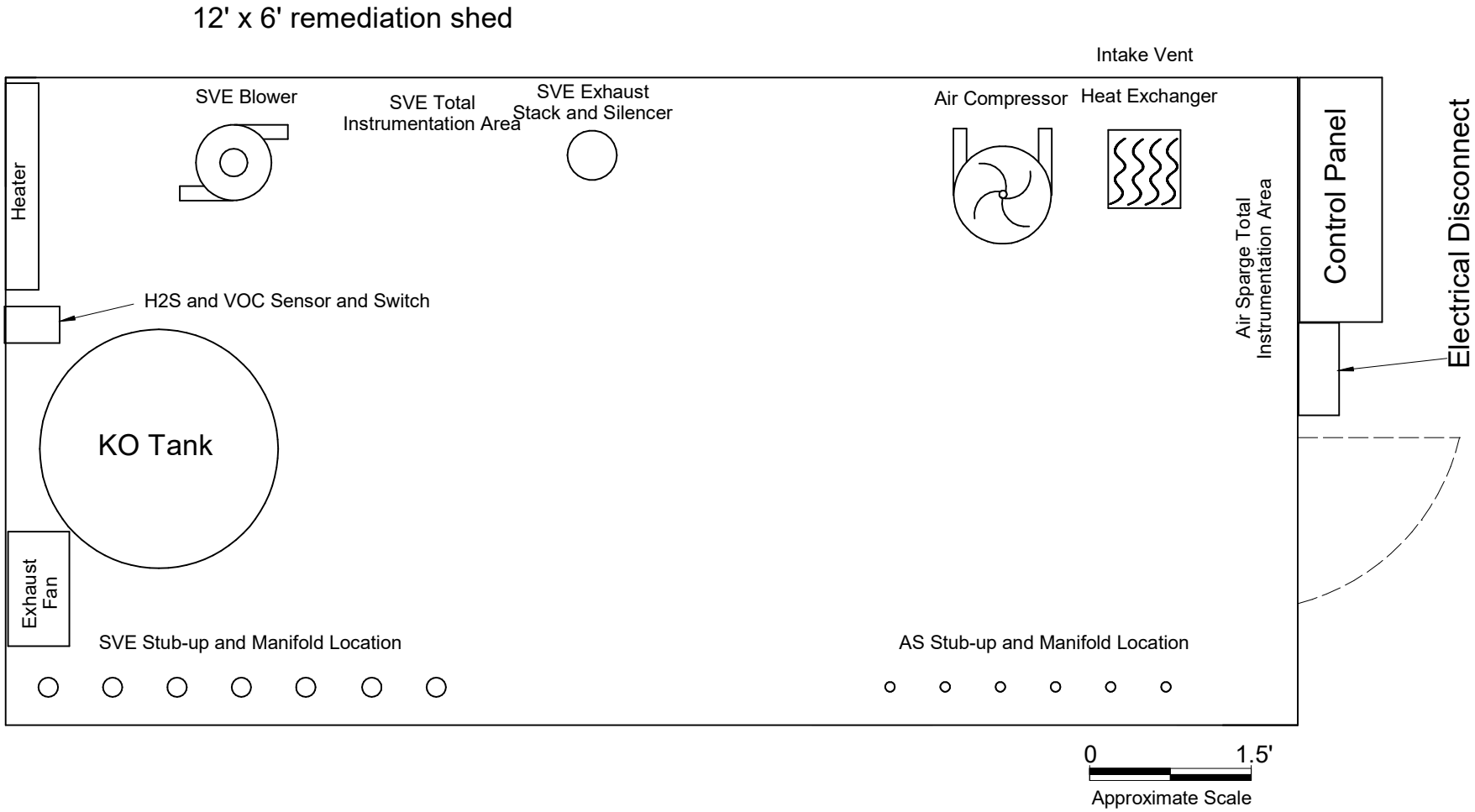
1. Venturi flow meter with differential pressure gage calibrated at 14.7 psia, 70 degrees F to read in scfm; requires 10 pipe diameters of straight pipe before and after meter. Must be suitable for moist air streams.

2. Low vacuum switch, adjustable, initially set at 10" water; 15 second delay; shuts down sparge system.

3. All electrical components inside the shed to be rated for Class I Division 2 environment.

4. Remediation system to be configured for remote operation of the touchpanel.

Figure 3
Enclosure Layout



ORIGINS LABORATORY, INC

December 18, 2019

CTS

Catt Wilson

4061 Spy Glass Ln.

Longmont CO 80503

Project Name - Largo **Project Number - Largo**

Attached are your analytical results for Largo received by Origins Laboratory, Inc. December 13, 2019. This project is associated with Origins project number Y912223-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE total	Y912223-01	Air	December 11, 2019 16:40	12/13/2019 10:25
SVE total	Y912223-02	Air	December 12, 2019 11:45	12/13/2019 10:25

Origins Laboratory, Inc.

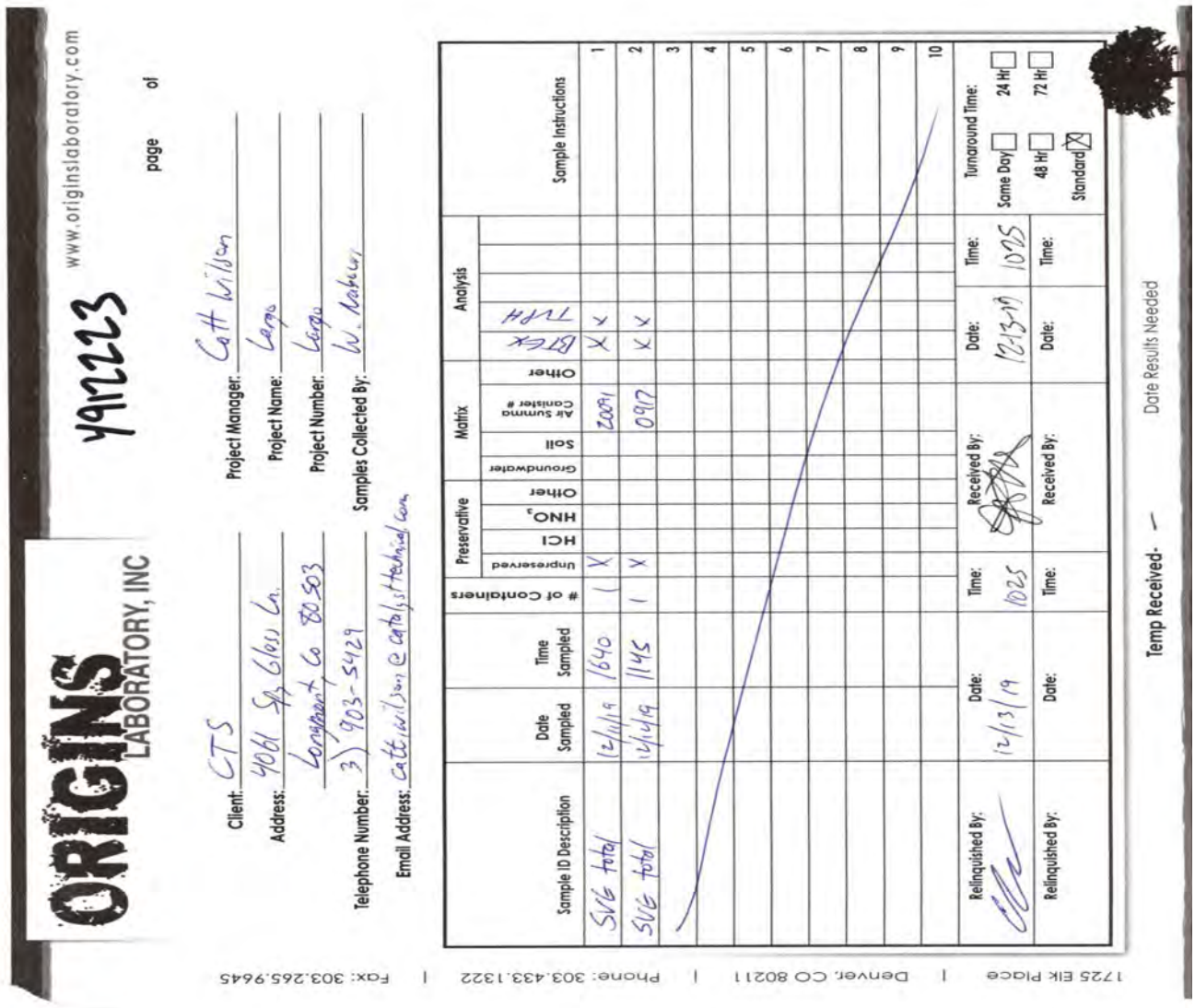
Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo



Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4912223 Client: CTS
Client Project ID: Largo
Checklist Completed by: BC Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12-13-19 1159 Airbill #:
Matrix(s) Received: (Check all that apply): ____Soil/Solid ____Water X Other: Air
Cooler Number/Temperature: ____/____ °C ____/____ °C ____/____ °C ____/____ °C (Describe)
Thermometer ID:

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?			X	Air
Is there ice present (document if blue ice is used)			X	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact[1]?	X			
Was adequate sample volume provided[1]?	X			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?	X	X		
Is a chain-of-custody (COC) present and filled out completely[1]?	X			
Does the COC agree with the number and type of sample bottles received[1]?	X			
Do the sample IDs on the bottle labels match the COC[1]?	X			
Is the COC properly relinquished by the client with date and time recorded[1]?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			X	
Are samples preserved that require preservation and was it checked[1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			X	
Additional Comments (if any):				

[1]*If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.*

CP
Reviewed by (Project Manager)

12/16/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

SVE total
12/11/2019 4:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y912223-01 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**550000**	50000	ug/m³ Air	250	B9L1303	DPM	12/13/2019	12/16/2019	
Benzene	**2780**	70.0	"	25	"	DPM	"	12/16/2019	
Toluene	ND	125	"	"	"	DPM	"	"	A-01, U
Ethylbenzene	**227**	125	"	"	"	DPM	"	"	
m,p-Xylene	**3780**	475	"	"	"	DPM	"	"	
o-Xylene	**165**	118	"	"	"	DPM	"	"	
Surrogate: 1,2-Dichloroethane-d4	*105 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*194 %*		*70-130*		"		"	"	S-04
Surrogate: 4-Bromofluorobenzene	*111 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

SVE total
12/12/2019 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y912223-02 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**9780000**	208000	ug/m³ Air	1041.46	B9L1303	DPM	12/13/2019	12/16/2019	
Benzene	**23700**	700	"	250	"	DPM	"	12/16/2019	
Toluene	ND	1250	"	"	"	DPM	"	"	A-01, U
Ethylbenzene	**1380**	1250	"	"	"	DPM	"	"	
m,p-Xylene	**15600**	4750	"	"	"	DPM	"	"	
o-Xylene	ND	1180	"	"	"	DPM	"	"	A-01, U

Surrogate: 1,2-Dichloroethane-d4	*106 %*	*70-130*	"	"	"	
Surrogate: Toluene-d8	*184 %*	*70-130*	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene	*90.8 %*	*70-130*	"	"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9L1303 - Default Prep - Air										
Blank (B9L1303-BLK1)					Prepared: 12/13/2019 Analyzed: 12/13/2019					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*10.9*		*ppbv*	*10.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*9.87*		*"*	*10.0*		*98.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.81*		*"*	*10.0*		*98.1*	*70-130*			
LCS (B9L1303-BS1)					Prepared: 12/13/2019 Analyzed: 12/13/2019					T
Benzene	30.0	2.80	ug/m³ Air	31.9		94.0	70-130			
Toluene	39.6	5.00	"	37.7		105	70-130			
Ethylbenzene	36.6	5.00	"	43.4		84.4	70-130			
m,p-Xylene	162	19.0	"	174		93.1	70-130			
o-Xylene	35.8	4.70	"	43.4		82.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.57*		*ppbv*	*10.0*		*95.7*	*70-130*			
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*70-130*			
LCS Dup (B9L1303-BSD1)					Prepared: 12/13/2019 Analyzed: 12/13/2019					T
Benzene	29.8	2.80	ug/m³ Air	31.9		93.3	70-130	0.747	25	
Toluene	39.8	5.00	"	37.7		106	70-130	0.285	25	
Ethylbenzene	38.3	5.00	"	43.4		88.1	70-130	4.29	25	
m,p-Xylene	172	19.0	"	174		98.8	70-130	5.94	25	
o-Xylene	38.8	4.70	"	43.4		89.4	70-130	8.15	25	
Surrogate: 1,2-Dichloroethane-d4	*9.43*		*ppbv*	*10.0*		*94.3*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9L1303 - Default Prep - Air										
LCS Dup (B9L1303-BSD1)					Prepared: 12/13/2019 Analyzed: 12/13/2019					T
Surrogate: Toluene-d8	*10.3*		*ppbv*	*10.0*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.91*		*"*	*10.0*		*99.1*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

A-01 The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

January 27, 2020

CTS

Catt Wilson

4061 Spy Glass Ln.

Longmont CO 80503

Project Name - Largo **Project Number - Largo**

Attached are your analytical results for Largo received by Origins Laboratory, Inc. January 22, 2020. This project is associated with Origins project number Y001287-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE total	Y001287-01	Air	January 20, 2020 14:40	01/22/2020 09:40

Origins Laboratory, Inc.

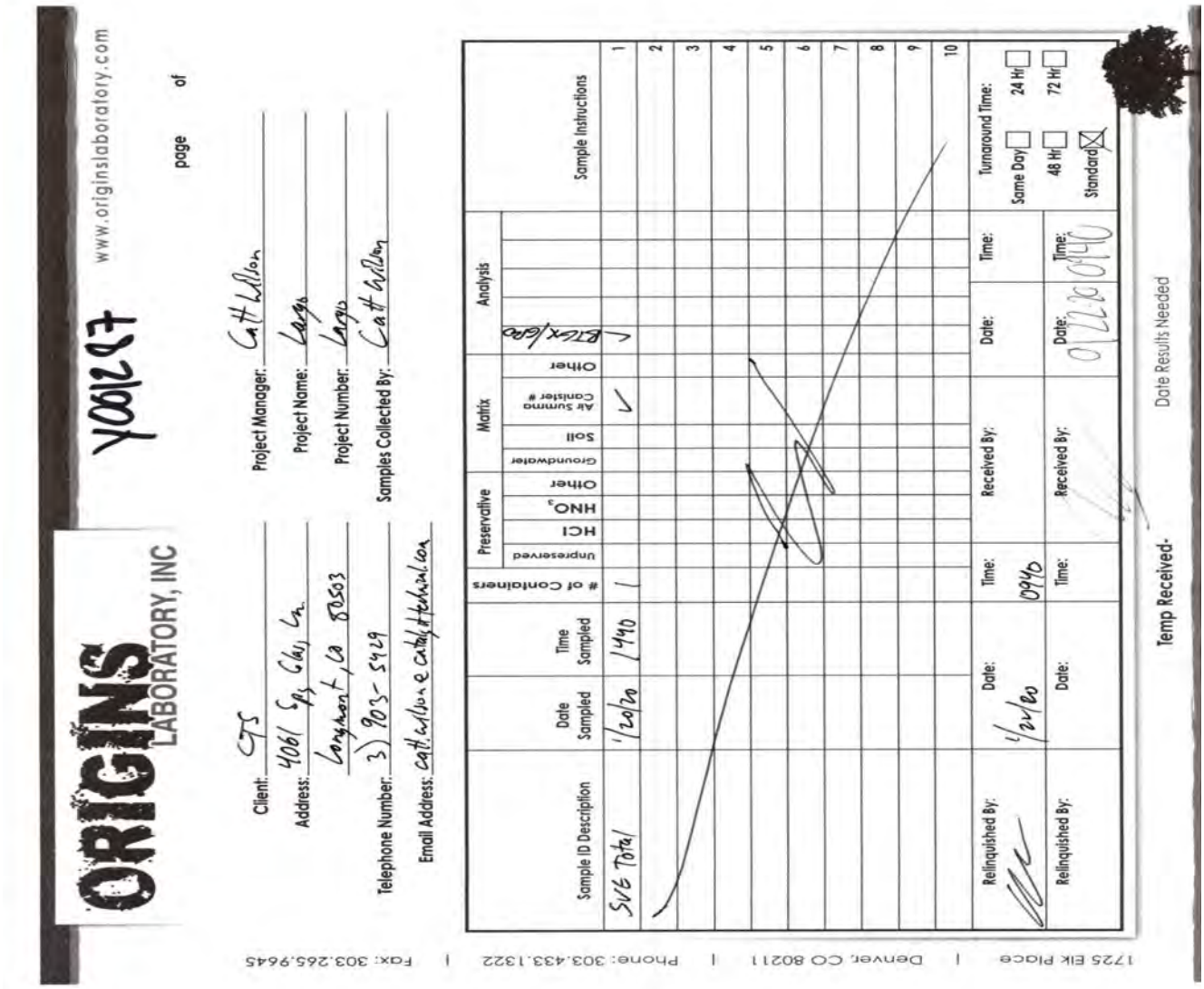
Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo



Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y001287
Client: CTS
Client Project ID: Largo
Checklist Completed by: JG
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 1/22/20
Airbill #: N/A
Matrix(s) Received: (Check all that apply) ____Soil/Solid ____Water X Other: A.S (Describe)
Cooler Number/Temperature: —/— °C ____/____ °C ____/____ °C ____/____ °C
Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?			/	
Is there ice present (document if blue ice is used)			/	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact[1]?	/			
Was adequate sample volume provided[1]?	/			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		/		
Is a chain-of-custody (COC) present and filled out completely[1]?	/			
Does the COC agree with the number and type of sample bottles received[1]?	/			
Do the sample IDs on the bottle labels match the COC[1]?	/			
Is the COC properly relinquished by the client with date and time recorded[1]?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			/	
Are samples preserved that require preservation and was it checked[1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			/	
Additional Comments (if any):				

[1]*If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.*

Reviewed by (Project Manager) 11/23/20 Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

SVE total
1/20/2020 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y001287-01 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**2140000**	50000	ug/m³ Air	250	B0A2203	DJL	01/21/2020	01/22/2020	
Benzene	**6310**	700	"	"	"	DJL	"	"	
Toluene	ND	125	"	25	"	DJL	"	01/23/2020	A-01, U
Ethylbenzene	**440**	125	"	"	"	DJL	"	"	
m,p-Xylene	**8420**	475	"	"	"	DJL	"	"	
o-Xylene	**787**	118	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	*123 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*265 %*		*70-130*		"		"	"	S-04
Surrogate: 4-Bromofluorobenzene	*112 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2203 - Default Prep - Air										
Blank (B0A2203-BLK1)					Prepared: 01/21/2020 Analyzed: 01/21/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*10.8*		*ppbv*	*10.0*		*108*	*70-130*			
Surrogate: Toluene-d8	*9.92*		*"*	*10.0*		*99.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.45*		*"*	*10.0*		*94.5*	*70-130*			
LCS (B0A2203-BS1)					Prepared: 01/21/2020 Analyzed: 01/21/2020					T
Benzene	33.7	2.80	ug/m³ Air	31.9		106	70-130			
Toluene	43.2	5.00	"	37.7		115	70-130			
Ethylbenzene	41.8	5.00	"	43.4		96.2	70-130			
m,p-Xylene	186	19.0	"	174		107	70-130			
o-Xylene	41.3	4.70	"	43.4		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.32*		*ppbv*	*10.0*		*93.2*	*70-130*			
Surrogate: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.61*		*"*	*10.0*		*96.1*	*70-130*			
LCS Dup (B0A2203-BSD1)					Prepared: 01/21/2020 Analyzed: 01/21/2020					T
Benzene	34.2	2.80	ug/m³ Air	31.9		107	70-130	1.41	25	
Toluene	43.0	5.00	"	37.7		114	70-130	0.612	25	
Ethylbenzene	43.1	5.00	"	43.4		99.2	70-130	3.07	25	
m,p-Xylene	192	19.0	"	174		111	70-130	3.49	25	
o-Xylene	42.8	4.70	"	43.4		98.6	70-130	3.61	25	
Surrogate: 1,2-Dichloroethane-d4	*9.27*		*ppbv*	*10.0*		*92.7*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0A2203 - Default Prep - Air										
LCS Dup (B0A2203-BSD1)					Prepared: 01/21/2020 Analyzed: 01/21/2020					T
Surrogate: Toluene-d8	*10.1*		*ppbv*	*10.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.30*		*"*	*10.0*		*93.0*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

A-01 The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

March 02, 2020

Catalyst Technical Solutions LLC
Catt Wilson
4061 Spy Glass Lane
Longmont CO 80503

Project Name - Largo Station **Project Number - [none]**

Attached are your analytical results for Largo Station received by Origins Laboratory, Inc. February 21, 2020. This project is associated with Origins project number Y002325-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE-Total	Y002325-01	Air	February 18, 2020 9:50	02/21/2020 16:25

Origins Laboratory, Inc.

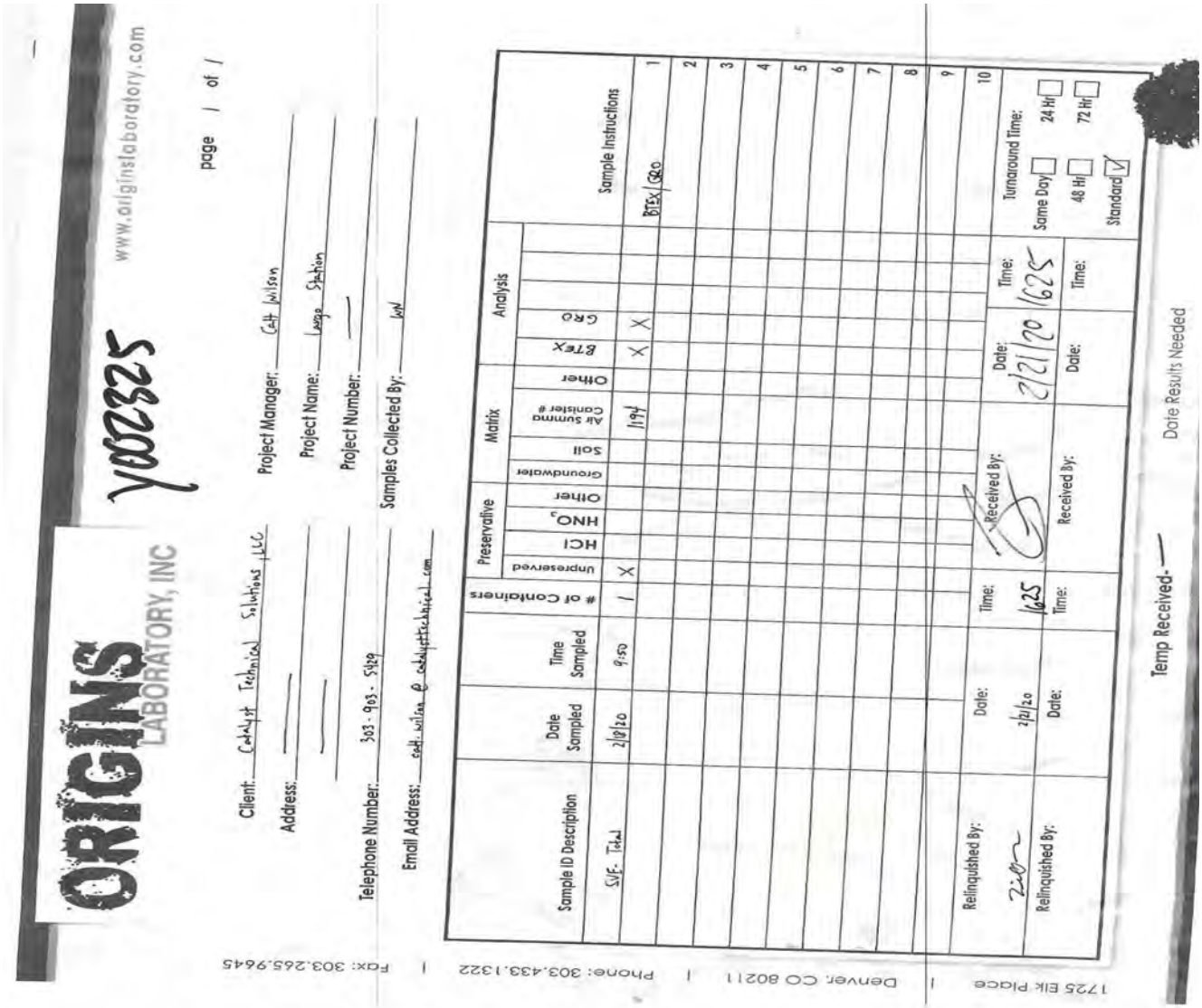
Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station



Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y002325
Client: Catalyst Technical
Client Project ID: Largo Station
Checklist Completed by: JG
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 2/24/20
Airbill #: N/A
Matrix(s) Received: (Check all that apply): ____Soil/Solid ____Water X Other: Air (Describe)
Cooler Number/Temperature: —/— °C ____/____ °C ____/____ °C ____/____ °C
Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[(1)]?			✓	
Is there ice present (document if blue ice is used)			✓	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Were all samples received intact[(1)]?	✓			
Was adequate sample volume provided[(1)]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[(1)]?		✓		
Is a chain-of-custody (COC) present and filled out completely[(1)]?	✓			
Does the COC agree with the number and type of sample bottles received[(1)]?	✓			
Do the sample IDs on the bottle labels match the COC[(1)]?	✓			
Is the COC properly relinquished by the client with date and time recorded[(1)]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [(1)]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

[(1)]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) CP
Date/Time Reviewed 2/25/20

Origins Laboratory, Inc.

Jen Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

SVE-Total
2/18/2020 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y002325-01 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**759000**	50000	ug/m³ Air	250	B0B2111	DJL	02/21/2020	02/29/2020	
Benzene	**1530**	70.0	"	25	"	DJL	"	02/29/2020	
Toluene	ND	125	"	"	"	DJL	"	"	R-01, U
Ethylbenzene	**272**	125	"	"	"	DJL	"	"	
m,p-Xylene	**5160**	475	"	"	"	DJL	"	"	
o-Xylene	**776**	118	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	*111 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*256 %*		*70-130*		"		"	"	*S-04*
Surrogate: 4-Bromofluorobenzene	*97.1 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0B2111 - Default Prep - Air										
Blank (B0B2111-BLK1)					Prepared: 02/21/2020 Analyzed: 02/24/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*10.4*		*ppbv*	*10.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*9.67*		*"*	*10.0*		*96.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*			
LCS (B0B2111-BS1)					Prepared: 02/21/2020 Analyzed: 02/24/2020					T
Benzene	33.0	2.80	ug/m³ Air	31.9		103	70-130			
Toluene	38.4	5.00	"	37.7		102	70-130			
Ethylbenzene	43.7	5.00	"	43.4		101	70-130			
m,p-Xylene	176	19.0	"	174		102	70-130			
o-Xylene	44.4	4.70	"	43.4		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.01*		*ppbv*	*10.0*		*90.1*	*70-130*			
Surrogate: Toluene-d8	*9.97*		*"*	*10.0*		*99.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*			
LCS Dup (B0B2111-BSD1)					Prepared: 02/21/2020 Analyzed: 02/24/2020					T
Benzene	33.2	2.80	ug/m³ Air	31.9		104	70-130	0.483	25	
Toluene	38.1	5.00	"	37.7		101	70-130	0.886	25	
Ethylbenzene	44.7	5.00	"	43.4		103	70-130	2.36	25	
m,p-Xylene	180	19.0	"	174		104	70-130	2.24	25	
o-Xylene	46.2	4.70	"	43.4		106	70-130	3.84	25	
Surrogate: 1,2-Dichloroethane-d4	*9.10*		*ppbv*	*10.0*		*91.0*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0B2111 - Default Prep - Air										
LCS Dup (B0B2111-BSD1)					Prepared: 02/21/2020 Analyzed: 02/24/2020					T
Surrogate: Toluene-d8	*9.86*		*ppbv*	*10.0*		*98.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*70-130*			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Catalyst Technical Solutions LLC
4061 Spy Glass Lane
Longmont CO 80503

Catt Wilson
Project Number: [none]
Project: Largo Station

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

May 14, 2020

CTS

Catt Wilson

4061 Spy Glass Ln.

Longmont CO 80503

Project Name - Largo **Project Number - Largo**

Attached are your analytical results for Largo received by Origins Laboratory, Inc. May 07, 2020. This project is associated with Origins project number Y005082-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE Discharge	Y005082-01	Air	May 6, 2020 12:21	05/07/2020 11:30

Origins Laboratory, Inc.

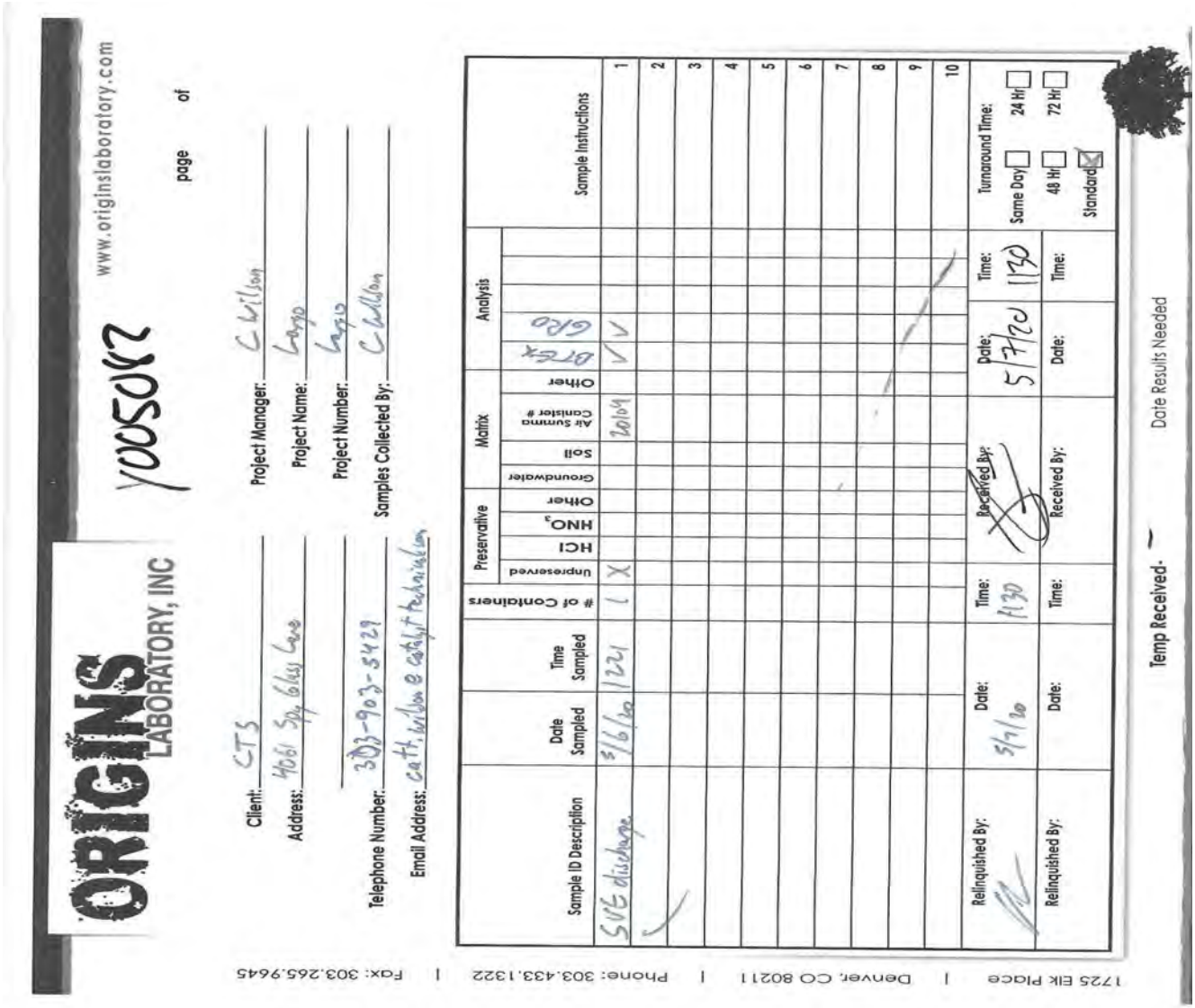
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo



Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4005682
Client: CTS
Client Project ID: Largo
Checklist Completed by: JG
Shipped Via: ID (UPS / FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 5/7/20
Airbill #: N/A
Matrix(s) Received: (Check all that apply): ____Soil/Solid ____Water X Other: Air (Describe)
Cooler Number/Temperature: —/— °C ____/____ °C ____/____ °C ____/____ °C
Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?			✓	
Is there ice present (document if blue ice is used)			✓	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

[1]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JM (Project Manager) 5-8-20 Date/Time Reviewed

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

SVE Discharge
5/6/2020 12:21:00PM

Origins Laboratory, Inc.
Y005082-01 (Air)

GBTEX by TO-15M GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
Gasoline Range Hydrocarbons	**241000**	5000	ug/m³ Air	25	B0E0709	ZZZ	05/07/2020	05/07/2020	
Benzene	**497**	70.0	"	"	"	ZZZ	"	"	
Toluene	ND	125	"	"	"	ZZZ	"	"	R-01, U
Ethylbenzene	ND	125	"	"	"	ZZZ	"	"	R-01, U
m,p-Xylene	**1970**	475	"	"	"	ZZZ	"	"	
o-Xylene	**157**	118	"	"	"	ZZZ	"	"	
Surrogate: 1,2-Dichloroethane-d4	*95.2 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*152 %*		*70-130*		"		"	"	*S-04*
Surrogate: 4-Bromofluorobenzene	*116 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E0709 - Default Prep - Air										
Blank (B0E0709-BLK1)					Prepared: 05/07/2020 Analyzed: 05/07/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*11.6*		*ppbv*	*10.0*		*116*	*70-130*			
Surrogate: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*70-130*			
LCS (B0E0709-BS1)					Prepared: 05/07/2020 Analyzed: 05/07/2020					T
Benzene	31.6	2.80	ug/m³ Air	31.9		99.0	70-130			
Toluene	32.6	5.00	"	37.7		86.6	70-130			
Ethylbenzene	39.4	5.00	"	43.4		90.8	70-130			
m,p-Xylene	165	19.0	"	174		95.0	70-130			
o-Xylene	38.6	4.70	"	43.4		88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.90*		*ppbv*	*10.0*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*9.31*		*"*	*10.0*		*93.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*70-130*			
LCS Dup (B0E0709-BSD1)					Prepared: 05/07/2020 Analyzed: 05/07/2020					T
Benzene	31.6	2.80	ug/m³ Air	31.9		98.9	70-130	0.101	25	
Toluene	33.1	5.00	"	37.7		87.8	70-130	1.38	25	
Ethylbenzene	41.6	5.00	"	43.4		95.8	70-130	5.36	25	
m,p-Xylene	175	19.0	"	174		101	70-130	6.07	25	
o-Xylene	41.8	4.70	"	43.4		96.3	70-130	7.99	25	
Surrogate: 1,2-Dichloroethane-d4	*9.50*		*ppbv*	*10.0*		*95.0*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E0709 - Default Prep - Air										
LCS Dup (B0E0709-BSD1)					Prepared: 05/07/2020 Analyzed: 05/07/2020					**T**
Surrogate: Toluene-d8	*9.33*		*ppbv*	*10.0*		*93.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

CTS
4061 Spy Glass Ln.
Longmont CO 80503

Catt Wilson
Project Number: Largo
Project: Largo

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS LABORATORY, INC

August 26, 2020

Soli Technical

Catt Wilson

PO Box 7548

Denver CO 80207

Project Name - Largo **Project Number - Largo**

Attached are your analytical results for Largo received by Origins Laboratory, Inc. August 19, 2020. This project is associated with Origins project number Y008257-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE	Y008257-01	Air	August 18, 2020 11:40	08/19/2020 10:07

Origins Laboratory, Inc.

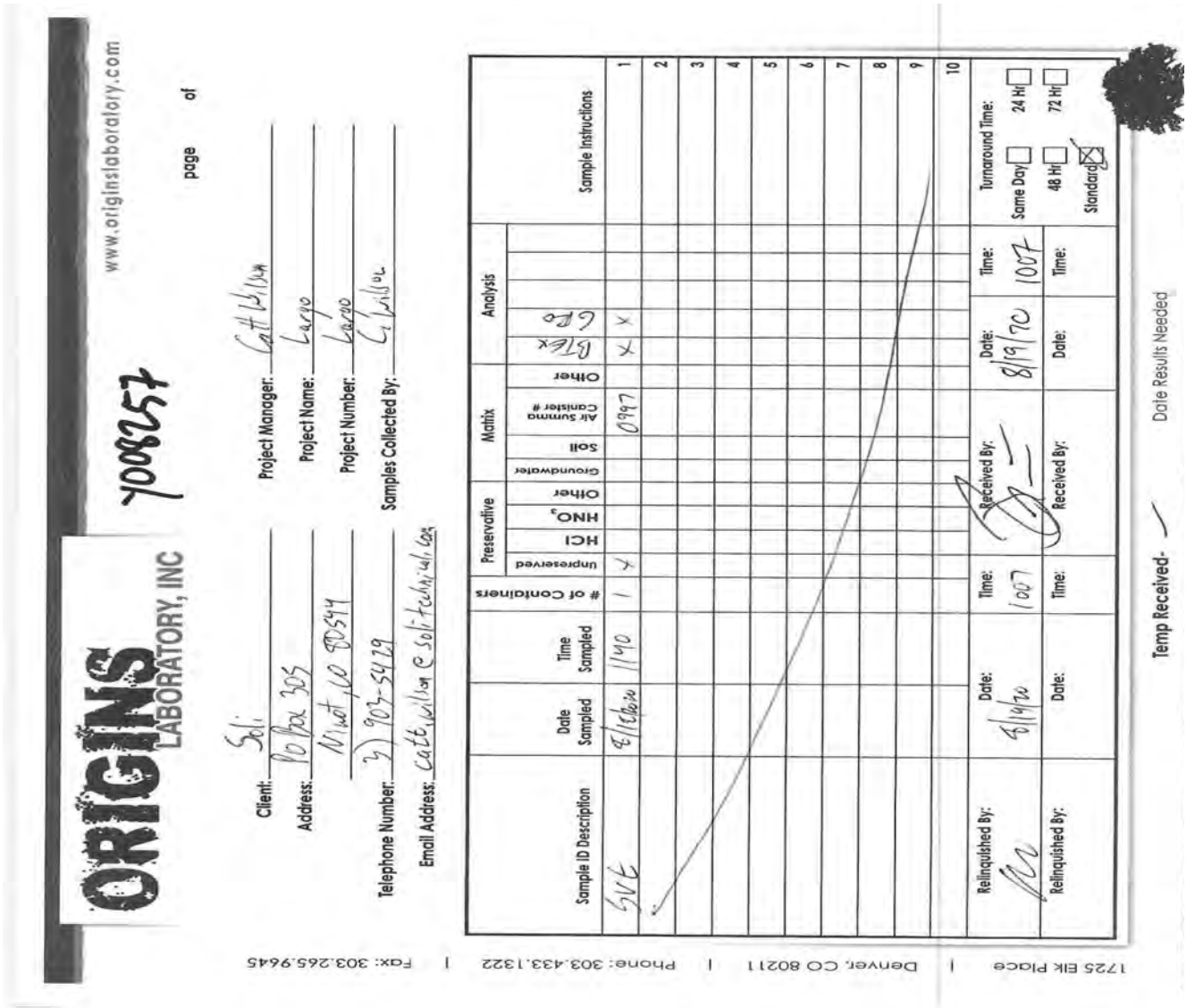
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo



Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 20086257
Client: Soli
Client Project ID: Largo
Checklist Completed by: SG
Date/time completed: 8/19/20
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): ____Soil/Solid ____Water X Other: Air (Describe)
Cooler Number/Temperature: —/— °C ____/____ °C ____/____ °C ____/____ °C
Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?			✓	
Is there ice present (document if blue ice is used)			✓	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) ✓ (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) ✓/ (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

[1]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

JM
Reviewed by (Project Manager)

8-20-20
Date/Time Reviewed

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

SVE
8/18/2020 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y008257-01 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**264000**	50000	ug/m³ Air	250	B0H2409	DJL	08/24/2020	08/25/2020	
Benzene	**840**	70.0	"	25	"	DJL	"	08/25/2020	
Toluene	ND	125	"	"	"	DJL	"	"	U
Ethylbenzene	ND	125	"	"	"	DJL	"	"	U
m,p-Xylene	**2400**	475	"	"	"	DJL	"	"	
o-Xylene	**326**	118	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	*94.4 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*151 %*		*70-130*		"		"	"	
Surrogate: 4-Bromofluorobenzene	*106 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0H2409 - Default Prep - Air										
Blank (B0H2409-BLK1)					Prepared: 08/24/2020 Analyzed: 08/24/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*9.95*		*ppbv*	*10.0*		*99.5*	*70-130*			
Surrogate: Toluene-d8	*9.93*		*"*	*10.0*		*99.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*9.81*		*"*	*10.0*		*98.1*	*70-130*			
LCS (B0H2409-BS1)					Prepared: 08/24/2020 Analyzed: 08/24/2020					T
Benzene	28.1	2.80	ug/m³ Air	31.9		88.0	70-130			
Toluene	32.0	5.00	"	37.7		85.0	70-130			
Ethylbenzene	38.6	5.00	"	43.4		88.8	70-130			
m,p-Xylene	169	19.0	"	174		97.5	70-130			
o-Xylene	36.4	4.70	"	43.4		83.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.07*		*ppbv*	*10.0*		*90.7*	*70-130*			
Surrogate: Toluene-d8	*9.25*		*"*	*10.0*		*92.5*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.9*		*"*	*10.0*		*109*	*70-130*			
LCS Dup (B0H2409-BSD1)					Prepared: 08/24/2020 Analyzed: 08/24/2020					T
Benzene	27.5	2.80	ug/m³ Air	31.9		86.1	70-130	2.18	25	
Toluene	31.6	5.00	"	37.7		83.8	70-130	1.42	25	
Ethylbenzene	38.1	5.00	"	43.4		87.8	70-130	1.13	25	
m,p-Xylene	168	19.0	"	174		96.8	70-130	0.721	25	
o-Xylene	38.5	4.70	"	43.4		88.6	70-130	5.57	25	
Surrogate: 1,2-Dichloroethane-d4	*9.21*		*ppbv*	*10.0*		*92.1*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0H2409 - Default Prep - Air										
LCS Dup (B0H2409-BSD1)					Prepared: 08/24/2020 Analyzed: 08/24/2020					T
Surrogate: Toluene-d8	*9.65*		*ppbv*	*10.0*		*96.5*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

December 16, 2020

Soli Technical

Catt Wilson

PO Box 7548

Denver CO 80207

Project Name - Largo **Project Number - Largo**

Attached are your analytical results for Largo received by Origins Laboratory, Inc. December 09, 2020. This project is associated with Origins project number Y012131-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com

THE NELAC INSTITUTE

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SVE Mainfold	Y012131-01	Air	December 8, 2020 11:40	12/09/2020 11:10

Origins Laboratory, Inc.

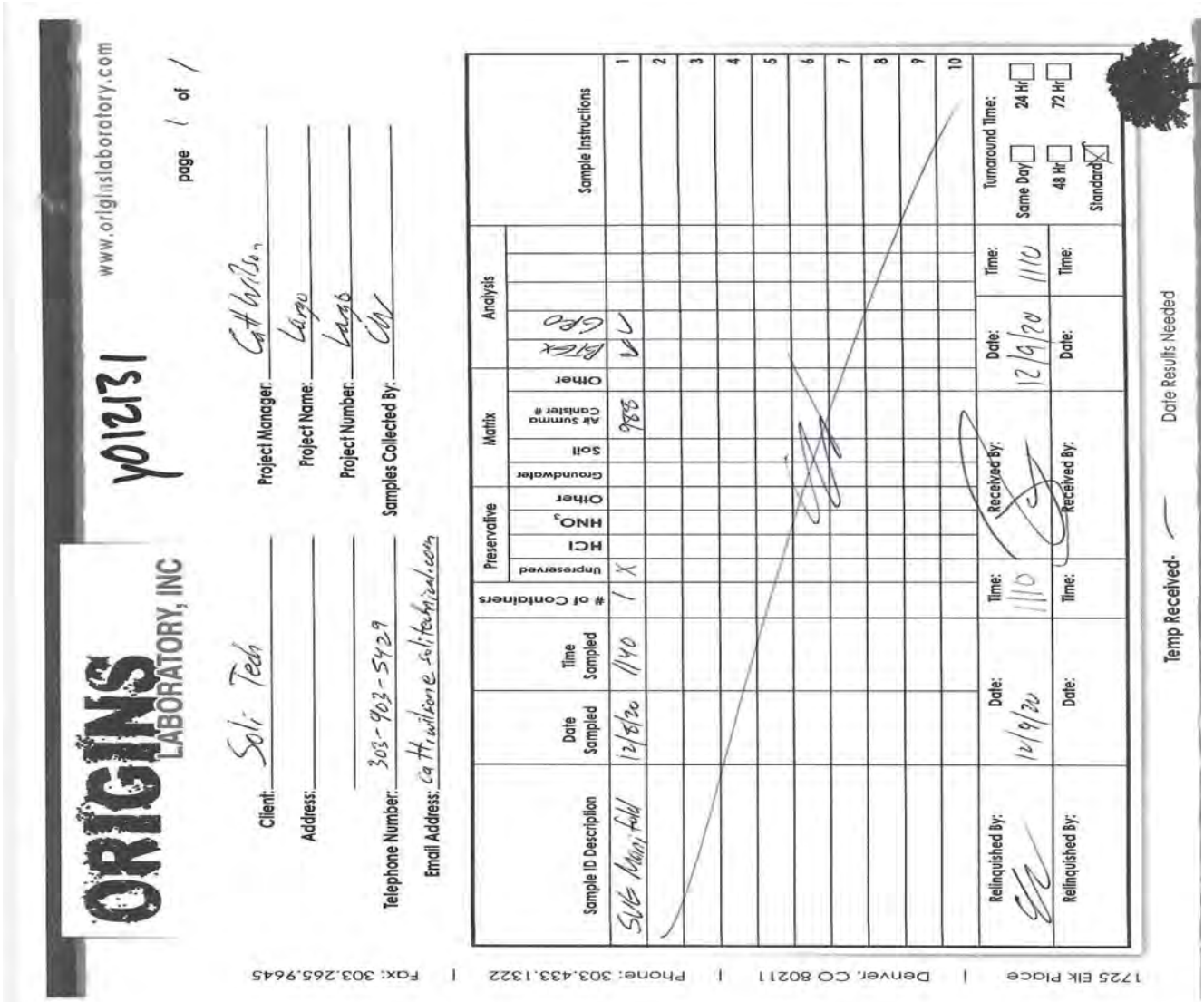
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo



Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1012131
Client: Soli
Client Project ID: Largo
Checklist Completed by: JG
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12/9/20
Airbill #: N/A
Matrix(s) Received: (Check all that apply): ____Soil/Solid ____Water X Other: Air (Describe)
Cooler Number/Temperature: —/— °C ____/____ °C ____/____ °C ____/____ °C
Thermometer ID: N/A

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?			✓	
Is there ice present (document if blue ice is used)			✓	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			✓	
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation and was it checked [1]? *(note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
Additional Comments (if any):				

[1]If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

JM
Reviewed by (Project Manager)

12-10-20
Date/Time Reviewed

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

SVE Mainfold
12/8/2020 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes

Origins Laboratory, Inc.
Y012131-01 (Air)

GBTEX by TO-15M GC/MS

									T
Gasoline Range Hydrocarbons	**216000**	5000	ug/m³ Air	25	B0L1408	DJL	12/14/2020	12/15/2020	
Benzene	**301**	70.0	"	"	"	DJL	"	"	
Toluene	ND	125	"	"	"	DJL	"	"	R-01, U
Ethylbenzene	ND	125	"	"	"	DJL	"	"	R-01, U
m,p-Xylene	**1580**	475	"	"	"	DJL	"	"	
o-Xylene	**300**	118	"	"	"	DJL	"	"	
Surrogate: 1,2-Dichloroethane-d4	*102 %*		*70-130*		"		"	"	
Surrogate: Toluene-d8	*136 %*		*70-130*		"		"	"	*S-04*
Surrogate: 4-Bromofluorobenzene	*109 %*		*70-130*		"		"	"	

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0L1408 - Default Prep - Air										
Blank (B0L1408-BLK1)					Prepared: 12/14/2020 Analyzed: 12/14/2020					T
Gasoline Range Hydrocarbons	ND	200	ug/m³ Air							U
Benzene	ND	2.80	"							U
Toluene	ND	5.00	"							U
Ethylbenzene	ND	5.00	"							U
m,p-Xylene	ND	19.0	"							U
o-Xylene	ND	4.70	"							U
Surrogate: 1,2-Dichloroethane-d4	*10.9*		*ppbv*	*10.0*		*109*	*70-130*			
Surrogate: Toluene-d8	*9.72*		*"*	*10.0*		*97.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*12.5*		*"*	*10.0*		*125*	*70-130*			
LCS (B0L1408-BS1)					Prepared: 12/14/2020 Analyzed: 12/14/2020					T
Benzene	34.6	2.80	ug/m³ Air	31.9		108	70-130			
Toluene	35.4	5.00	"	37.7		93.9	70-130			
Ethylbenzene	40.2	5.00	"	43.4		92.5	70-130			
m,p-Xylene	190	19.0	"	174		110	70-130			
o-Xylene	43.4	4.70	"	43.4		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.82*		*ppbv*	*10.0*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*8.92*		*"*	*10.0*		*89.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*7.98*		*"*	*10.0*		*79.8*	*70-130*			
LCS Dup (B0L1408-BSD1)					Prepared: 12/14/2020 Analyzed: 12/14/2020					T
Benzene	33.4	2.80	ug/m³ Air	31.9		104	70-130	3.76	25	
Toluene	34.9	5.00	"	37.7		92.6	70-130	1.39	25	
Ethylbenzene	39.0	5.00	"	43.4		89.7	70-130	3.07	25	
m,p-Xylene	184	19.0	"	174		106	70-130	3.29	25	
o-Xylene	42.6	4.70	"	43.4		98.1	70-130	1.82	25	
Surrogate: 1,2-Dichloroethane-d4	*9.52*		*ppbv*	*10.0*		*95.2*	*70-130*			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Volatile Organic Compounds by TO-15 in Air - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0L1408 - Default Prep - Air										
LCS Dup (B0L1408-BSD1)					Prepared: 12/14/2020 Analyzed: 12/14/2020					T
Surrogate: Toluene-d8	*8.98*		*ppbv*	*10.0*		*89.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*7.78*		*"*	*10.0*		*77.8*	*70-130*			

Origins Laboratory, Inc.

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Jordan A. Merrill For Jen Pellegrini, Project Manager

ORIGINS LABORATORY, INC

Soli Technical
PO Box 7548
Denver CO 80207

Catt Wilson
Project Number: Largo
Project: Largo

Notes and Definitions

U Sample is Non-Detect.

T The TO-15 analysis is not part of the NELAC accreditation

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Merrill For Jen Pellegrini, Project Manager

Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS GP, LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

APPROVED

April 27, 2020

Return Receipt Requested**
Submitted via email: Cory.Smith@state.nm.us

Mr. Cory Smith
New Mexico Energy, Minerals & Natural Resources
Department – Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Review of 2018 Interim Remediation and Groundwater Monitoring Report
Report: **Content satisfactory**
Follow recommendations stated within 2018 Annual Groundwater Monitoring Report.

RE: ***2018 Annual Groundwater Monitoring Report*** (Ensolum, September 19, 2019)
Enterprise Field Services, LLC
Largo Compressor Station - Condensate Releases (January 2008, et.al.)
County Road (CR) 379, Rio Arriba Co., NM [NE ¼ & SE ¼, S15 T26N R7W (36.4855° N, 107.5578° W)]
OCD RP: 3R-1001, Stage 1 AP No. 128; Groundwater Discharge Plan GW-211

Dear Mr. Smith:

Enterprise Products Operating LLC (Enterprise), on behalf of Enterprise Field Service, LLC, is submitting this electronic copy of the above-referenced report prepared by Ensolum, LLC (Ensolum) and dated September 19, 2019. The report is associated with the Enterprise Largo Station release of natural gas condensate liquids that occurred in January 2008 from a condensate storage tank (and subsequent historical areas of impact), located in Rio Arriba County, New Mexico (the "Site"). The activities detailed in the attached report include two semi-annual groundwater monitoring and sampling (SA-GWM&S) events that occurred between January 1, 2018 and December 31, 2018 (the "reporting period"). Enterprise also completed the excavation of impacted soils in Area 3 in 2019, as well as completing the installation of an automated soil vapor extraction (SVE) and air sparing (AS) system in Area 1 (Former Condensate Storage Tank Area). The system is currently in operation. Regulatory oversight of the remediation activities at the Site is currently being shared by the New Mexico Oil Conservation Division's (OCD's) Santa Fe (District 4) and Aztec (District 3) offices.

Data presented in the attached report indicate that dissolved-phase hydrocarbon (DPH), or constituent of concern (COC), concentrations remain at the Site in excess of the applicable Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). Additionally, the DPH plume remains fully delineated.

Based on the information contained in the attached report, Enterprise intends to continue to perform groundwater monitoring activities at the facility and plans to increase the groundwater monitoring frequency in pertinent areas of the groundwater monitor well network once the *Stage 1 Abatement Plan* (Ensolum, revised May 22, 2019) has been approved by the OCD. In addition, Enterprise will evaluate the need to reinstall monitor wells in area 3 (former excavation area) after reviewing the 2019 groundwater data as part of the *Stage 2 Abatement Plan* proposal process.

Enterprise appreciates the OCD's continued assistance and guidance in bringing closure to this Site. Should you have any questions, comments or concerns, or require additional information, please feel free to contact me any time at 713-381-8780, or at gemiller@eprod.com.

Sincerely,

Gregory E. Miller, P.G.
Supervisor, Environmental

Rodney M. Sartor, REM
Sr. Director, Environmental

cc: Adjacent Landowner – Mr. John Berry and Mrs. Patricia Berry < PO Box 29, Dexter, New Mexico 88230>
ec: NMOCD, Santa Fe, NM – Mr. Jim Griswold <Jim.Griswold@state.nm.us>
NMOCD, Santa Fe, NM – Mr. Brad Billings <Bradford.Billings@state.nm.us>
Ensolum, Houston, TX – Mr. Marc E. Gentry <MGentry@ensolum.com>

*** Please note that due to the COVID-19 pandemic and the current "Stay Home, Work Safe" order issued for Harris County Texas, all hard copies (and associated electronic copies on CD or USB drives) of the Subject document(s) will be mailed to each recipient once Enterprise staff are allowed to return to work. In the interim, an electronic copy will be emailed as the official submittal.*

P.O. BOX 4324
HOUSTON, TEXAS 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TEXAS 77002-5227
www.epplp.com

From: Drewry, Scott
To: "Smith, Cory, EMNRD"; "jim.griswold@state.nm.us"; "Bradford.Billings@state.nm.us"
Cc: Greg Miller; "Kyle Summers"; Marc Gentry; Liz Scaggs
Subject: (RP No. 3R-1001) Largo Compressor Station - AGWMR
Date: Monday, May 4, 2020 5:06:00 PM
Attachments: 200427 (Eprod) submit Largo 2018 AGWMR.pdf
Importance: High

Greetings,

The attached document (2018 Annual Groundwater Monitoring Report, dated September 19th) for the Largo Compressor Station is being distributed on behalf of Enterprise Products Operating LLC. Please accept the PDF attachment as NMOCD's electronic copy of submittal.

Enterprise appreciates the LDEQ's continued assistance and guidance in moving this Site towards closure. Should you have any questions, comments or concerns, please feel free to contact Greg Miller at 713-381-8780, or at GEMiller@eProd.com.

Many thanks,

Scott Drewry, P.G.
Environmental Remediation
713.381.5696
sdrewry@eprod.com

LARGO COMPRESSOR STATION
2018 ANNUAL GROUNDWATER MONITORING REPORT

Property:

Largo Compressor Station
NE ¼ and SE ¼, S15 T26N R7W
Rio Arriba County, New Mexico

Groundwater Discharge Plan No. GW-211
New Mexico EMNRD OCD RP No. 3R-1001, AP No. 128

September 19, 2019
Ensolum Project No. 05A1226001

Prepared for:

Enterprise Field Services LLC
P.O. Box 4324
Houston, Texas 77210-4324
Attn: Mr. Gregory E. Miller, P.G.

Prepared by:

Ranee Deechilly
Staff Scientist

Kyle Summers
Principal

ENSOLUM

LARGO COMPRESSOR STATION
2018 ANNUAL GROUNDWATER MONITORING REPORT
EXECUTIVE SUMMARY

During May and October 2018, Apex TITAN, Inc. (Apex) conducted semi-annual groundwater monitoring events at the Largo Compressor Station (the "Site"). The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and is located off of County Road (CR) 379 in Section 15, Township 26 North, Range 7 West in Rio Arriba County, New Mexico.

Site Background

During January 2008, a natural gas condensate release occurred at a former condensate storage tank battery (Area 1 - Former Condensate Storage Tank Area). The release was subsequently reported to the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD). Initial response activities included soil boring installation and sampling to evaluate the extent of impact (*Geoprobe Investigation at Largo Compressor Station,* Lodestar Services Inc., May 2008). Results from the initial investigation activities indicated constituent of concern (COC) concentrations in soil and groundwater above the New Mexico EMNRD OCD Closure Standards and the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs). The former condensate tanks (formerly located near the current location of groundwater monitoring well MW-7) were permanently removed from the facility and replaced by a new condensate storage tank battery in a different part of the facility.

During June 2009, potential petroleum hydrocarbon impact was discovered during construction at the new condensate storage tank battery in Area 2, resulting in the removal of impacted soils.

During July 2009, historical petroleum hydrocarbon impact was discovered in Area 3 (Retention Pond Area) during the construction of a stormwater retention pond. Analytical results of soil and groundwater samples collected from the retention pond excavation indicated COC concentrations above New Mexico EMNRD OCD Closure Standards in soil and above applicable WQCC GQSs in groundwater. In addition, soil samples collected from four (4) test pits advanced outside the retention pond excavation exhibited COC concentrations above the New Mexico EMNRD OCD Closure Standards.

Supplemental excavation, delineation, and remediation activities have been performed between March/April 2008 and July 2017 in Areas 1 through 4, as documented in the following reports:

- *Report of Subsurface Investigation at Largo Compressor Station*, Lodestar Services, Inc., November 30, 2009
- *General Report EPCO Largo Station Summary Report,* Souder, Miller & Associates, January 10, 2010
- *Interim Remedial Investigation Report*, LT Environmental, Inc. (LTE), May 15, 2010
- *Groundwater Sampling Report*, LTE, September 10, 2010
- *Environmental Site Investigation*, Southwest Geoscience (now Apex TITAN, Inc (Apex)), March 24, 2011
- *Corrective Action Pilot Study Report*, Southwest Geoscience, October 10, 2011
- *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)*, Southwest Geoscience, June 31, 2012
- *Supplemental Site Investigation Report – (November 2012 and January 2013),* Southwest Geoscience, February 22, 2013
- *Remediation Plan (Corrective Action Status Report) Largo Compressor Station*, Southwest Geoscience, March 19, 2014
- *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events and Supplemental Site Investigation Report*, Apex, April 13, 2015

- *Interim Corrective Action (Area 3) and Treated Soil Sampling (Area 1) Report*, Apex, July 14, 2016
- *Soil Remediation Plan*, Apex, May 11, 2017
- *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action,* Apex, August 14, 2017

During August 2017, petroleum hydrocarbon-affected soil remediation (by excavation and disposal) was initiated to address impacts in Area 3. These remediation activities were completed in 2019. Additionally, a soil vapor extraction (SVE) and air-sparge (AS) remediation system was installed adjacent to the original 2008 condensate tank release location (Area 1) during April 2018 and is expected to be in service before the end of 2019. The SVE/AS system is designed to accelerate the remediation of any remaining smear-zone and/or groundwater hydrocarbon impact in the area.

2018 Groundwater Sampling Events

The objective of the groundwater monitoring events conducted in 2018 was to further evaluate the concentrations of COCs in groundwater at the Site. Findings and recommendations based on these activities are as follows:

- At this time, the subsurface hydraulic gradient, the apparent influence of a north trending subsurface paleochannel, and the groundwater analytical data collected from the Site seem to indicate that the petroleum hydrocarbon impact to the shallow groundwater-bearing unit is primarily delineated within the monitoring well network.

- The groundwater flow direction at the Site is generally towards the northwest, with an average gradient of 0.003 foot per feet (ft/ft) across the Site.

- During the May 2018 sampling event, the groundwater sample collected from monitoring well MW-7 exhibited a benzene concentration of 35 micrograms per liter (µg/L), which exceeds the WQCC GQS of 10 µg/L.

- During the October 2018 sampling event, the groundwater samples collected from monitoring wells MW-7 and MW-48 exhibited benzene concentrations of 5,800 µg/L and 11 µg/L, respectively, which exceed the WQCC GQS of 10 µg/L.

- Benzene concentrations at monitoring well MW-7 are trending higher over the last five sampling events (10/14/16 through 10/05/18) when compared to the data from 4/24/13 through 4/27/16.

- Benzene concentrations at monitoring wells MW-15 and MW-39 continued to exhibit consistent trace benzene concentrations during each of the 2018 monitoring events.

Based on the results of groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;

- Reinstall monitoring wells within the primary COC plume areas and enhance the monitoring well network where necessary; and,

- Increase the sampling frequencies to pertinent portions of the monitoring well network to quarterly monitoring, as described in the Stage 1 Abatement Plan, and develop a Stage 2 Abatement Plan once the Stage 1 Abatement Plan has been approved by the New Mexico EMNRD OCD and has been implemented.

TABLE OF CONTENTS

LIST OF APPENDICES

ENSOLUM

LARGO COMPRESSOR STATION
2018 ANNUAL GROUNDWATER MONITORING REPORT

Groundwater Discharge Plan No. GW-211
New Mexico EMNRD OCD RP No. 3R-1001, AP No. 128

Ensolum Project No. 05A1226001

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
Site Name:	Largo Compressor Station (Site)
Location:	36.4855° North, 107.5578° West Northeast (NE) and Southeast (SE) ¼, Section 15 Township 26 North, Range 7 West Off County Road (CR) 379) Rio Arriba County, New Mexico
Property:	Enterprise and Private Land (John and Patricia Berry)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is a natural gas compressor station designed to dehydrate and compress natural gas gathered from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and currently includes two (2) compressor engines, a dehydration unit and related treater, one (1) bullet storage tank, a new condensate storage tank battery containing seven (7) tanks, inlet scrubbers, a control room, a stormwater retention pond, and an office/shop building.

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to oil and gas related releases, the New Mexico EMNRD OCD utilizes the New Mexico EMNRD OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action. Additionally, the New Mexico EMNRD OCD utilizes the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standard (GQS*)* (NMAC 20.6.2 *Groundwater and Surface Water Protection*) to evaluate groundwater conditions.[1]

The areas of known or potential impact at the Site have been previously designated as Areas 1 through 4 in prior New Mexico EMNRD OCD correspondence. Each of the areas is depicted on **Figure 3** in relation to pertinent Site features and general Site boundaries. These areas are briefly described below:

Area 1 (Former Condensate Storage Tank Area)

Area 1 is defined as the northwestern portion of the Site and includes the former condensate storage tank battery associated with on-going investigation/monitoring and/or corrective actions since a release from a condensate storage tank valve was reported to the New Mexico EMNRD OCD in January 2008. Additional detail regarding the investigative and corrective activities at Area 1 are provided in the *Report of Subsurface*

[1] NMAC 20.6.2 was amended (12/21/18). The New Mexico EMNRD OCD District 3 Office has indicated that the updated GQSs will not be enforced until sometime in 2020. Therefore, this document reflects the previous GQSs which are currently being enforced.

Investigation at Largo Compressor Station (Lodestar Services, Inc., dated November 30, 2009), *Interim Remedial Investigation Report* (LT Environmental, Inc. (LTE), dated May 15, 2010), *Groundwater Sampling Report* (LTE, dated September 10, 2010), *Environmental Site Investigation – Largo Compressor Station (GW-211)* (Southwest Geoscience (SWG), dated March 24, 2011), the *Corrective Action Pilot Study Report* (SWG, dated October 10, 2011), the *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events) and Supplemental Site Investigation Report* (Apex TITAN, Inc., (Apex), dated April 13, 2015), and the *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action* (Apex, dated August 14, 2017). The old condensate storage tanks were removed from Area 1 during July/August 2012. During the summer and fall of 2013, Enterprise removed hydrocarbon-affected soils from the former tank battery footprint. These activities are described in the *Remediation Plan (Corrective Action Status Report) Largo Compressor Station* (SWG, dated March 19, 2014). A soil vapor extraction and air sparge system (installed during 2018) are scheduled to go on-line during 2019.

Area 2 (Valve Box Area)

Area 2 includes the new condensate storage tank battery and the immediate surrounding area. This area is in the north central portion of the Site, immediately south of CR 379. During the construction of the new tank battery in June 2009, petroleum hydrocarbon-affected soils were encountered in association with a former valve box and related appurtenances. These impacts were subsequently remediated. Additional detail and references regarding the investigative and prior corrective action activities at Area 2 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211)* (SWG, dated March 24, 2011).

Area 3 (Retention Pond Area)

Area 3 encompasses the east portion of the Site including the stormwater retention pond. Historical petroleum hydrocarbon-affected soil and groundwater were identified during the construction of the retention pond in July of 2009, which may have originated from historic oil and contact water treatment and/or storage in the area of the current retention pond. Additional details regarding previous investigative and corrective activities at Area 3 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211)* (SWG, dated March 24, 2011), the *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)* (SWG, dated June 31, 2012), the *Supplemental Site Investigation Report – (November 2012 and January 2013)* (SWG, dated February 22, 2013), the *Interim Corrective Action (Area 3) and Treated Soil Sampling (Area 1) Report* (Apex, dated July 14, 2016)*, and the Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action* (Apex, dated August 14, 2017). Area 3 soil removal activities were completed during 2019.

Area 4 (Compression & Dehydration Area)

Area 4 comprises the remainder of the Site, which includes the active compression and treatment area that includes two (2) compressor engines, a dehydration unit and related inlet scrubbers. Soil and groundwater investigation activities pertaining to Area 4 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211)* (SWG, dated March 24, 2011), and the *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012)* (SWG, dated June 31, 2012).

The Site location is depicted on **Figure 1** of **Appendix A** which was reproduced from a portion of a United States Geological Survey (USGS) 7.5-minute series topographic map. A **Site Vicinity Map**, created from an aerial photograph, is provided as **Figure 2** of **Appendix A**. The locations of the monitoring wells are depicted on **Figure 3** in relation to pertinent Site features and general Site boundaries.

1.2 Chronology of Events

Significant events and related activities associated with the Site, including the results of Site investigation activities and corrective action completed prior to activities described within this report, are provided in the following summary:

January 2008

Area 1: The release was discovered that resulted from a frozen valve on a condensate storage tank. The release flowed into the below-grade drain tanks, which subsequently overflowed into the surrounding containment. The release was subsequently reported to the New Mexico EMNRD OCD.

March/April 2008

Area 1: *Geoprobe Investigation at Largo Compressor Station (Lodestar – May 16, 2008)*: Initial field investigation activities were performed by Lodestar Services, Inc., (Lodestar) during March and April of 2008. Nineteen (19) soil borings (B-1 through B-19) were advanced at the Site with total depths ranging from 14.5 feet below grade surface (bgs) to 21 feet bgs. Five (5) of the 19 soil borings completed as one (1) inch diameter piezometers (P-1 though P-5). Based on the depth to groundwater and the proximity to a surface water body, the Site was classified with a total ranking score greater than 19.

Lodestar collected 29 soil samples from the 19 soil borings and submitted the samples for analysis of total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). In addition, five (5) groundwater samples collected from the piezometers were submitted for TPH GRO/DRO and BTEX analysis. Soil samples collected from soil borings B-1, B-2, B-5, and B-14 exhibited TPH GRO/DRO concentrations above the New Mexico EMNRD OCD *Remediation Action Level* (RAL). The groundwater samples collected from piezometers P-1, P-2, and P-3 exhibited benzene, toluene, and/or total xylene concentrations above the WQCC GQSs.

August/September 2008

Area 1: Enterprise submitted a notice that the condensate storage tank system was scheduled to be upgraded/replaced.

September/October 2008

Areas 1 through 4: The New Mexico EMNRD OCD approved Enterprise's planned storage tank modification with the condition that Enterprise file an appropriate closure plan for the old tank battery.

June/July 2009

Area 2: An area of petroleum hydrocarbon impact was discovered during construction activities at the new condensate storage tank battery. The source of impact is presumed to be a valve box from a storage tank formerly utilized at this location. Souder, Miller, & Associates (SMA) assisted with the assessment activities and Foutz & Bursum (F&B) performed the excavation activities. Exploratory "potholes" were advanced to investigate the extent of subsurface contamination. Groundwater was encountered at approximately 13 feet bgs during these activities. On June 26, 2009, SMA collected a groundwater sample from pothole #1 (PH #1). Based on the laboratory analytical data, benzene was identified at a concentration in excess of the WQCC GQSs. Based on field observations, soil screening data, and laboratory analytical data, F&B excavated the impacted soils, resulting in a final excavation approximately 100 feet long by 30 feet wide and 13 feet

deep. SMA collected a total of four (4) soil confirmation samples from the sidewalls of the Area 2 excavation and one (1) soil confirmation sample from the excavated soil stockpile and submitted them for analysis of TPH GRO/DRO. The confirmation soil samples did not exhibit constituent of concern (COC) concentrations above the New Mexico EMNRD OCD RALs. The Area 2 excavation was backfilled in July 2009 with unaffected soil and gravel. SWG subsequently collected groundwater samples from this approximate area (TSW-44 and TSW-45) and groundwater impacts were not observed (*Environmental Site Investigation* (SWG – March 24, 2011)*).*

July 2009

Area 1: *Inspection Report – New Mexico OCD (July 9, 2009):* Onsite inspection by New Mexico EMNRD OCD required Enterprise to conduct tank integrity testing, improve leak detection monitoring, liner repair, soil and groundwater remediation, and system repair or replacement.

Area 1: *Response to Inspection Report – Enterprise (July 23, 2009):* Enterprise submitted a work plan to perform additional investigation activities at the Site.

July/August 2009

Area 3: Petroleum hydrocarbon impact was discovered in Area 3 during the excavation of a stormwater retention pond at the facility. Initial Form C-141 was submitted to New Mexico EMNRD OCD on July 6, 2009.

On July 15, 2009, a cement tank containing water (possibly an old cistern) was unearthed in the vicinity of the planned stormwater retention pond. SMA collected a water sample from the tank, and subsequent BTEX analyses indicated the tank water did not exhibit BTEX concentrations in excess of the WQCC GQSs. Soil confirmation samples were collected below the water table (BWT) on the north side of the retention pond excavation and on the northeast wall (NE Wall) of the retention pond excavation. Sample results indicated the “BWT” and “NE Wall” samples contained TPH GRO/DRO, benzene, and/or total BTEX concentrations in excess of the New Mexico EMNRD OCD RALs. Groundwater at the BWT soil sample location was collected (GE) and submitted for analysis of BTEX. The GE groundwater sample exhibited benzene, toluene and total xylenes concentrations in excess of the WQCC GQSs.

On July 16, 2009, SMA installed four (4) test pits, each completed to a total depth of approximately 13 feet bgs, to the north and east of the retention pond excavation. Groundwater was encountered in each of the test pits at approximately 13 feet bgs. SMA collected one (1) soil sample just above the water table in each of the test pits and field screened them for the presence of volatile organic compounds (VOCs). Based on visual observations and field screening results of the soil samples, it was concluded that “soil impacts likely extended beyond a reasonable area for excavation”. Enterprise elected to stop extending the excavation and to remove any visibly contaminated soil remaining in the existing excavation of Area 3. SMA subsequently collected a groundwater sample from the southwest corner of the retention pond excavation (SWCRP) and submitted it for analysis of BTEX. The SWCRP groundwater sample exhibited benzene and total xylenes concentrations above the WQCC GQSs.

The excavated soils, totaling approximately 1,701 cubic yards (although one source indicates 3,000 cubic yards), were transported off-site and disposed

of at the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico. Additionally, a vacuum truck was utilized to remove approximately 1,120 barrels (bbls) of hydrocarbon-impacted groundwater from the excavation prior to backfilling. The excavation was backfilled with approximately 1,360 cubic yards of unaffected material, creating a four (4) to five (5) foot deep depression for use as the stormwater retention pond.

August 2009

Area 1: *Report of Subsurface Investigation at Largo Compressor Station* (Lodestar – November 30, 2009)*:* During August 2009, Lodestar performed a subsurface field investigation at the Site. Ten (10) additional soil borings (B-21 through B-30) were advanced at the Site. Additionally, two (2) hand auger borings (HA-1 and HA-2) were advanced within the former condensate storage tank containment berm. Four (4) of the ten (10) soil borings were completed as permanent two (2) inch groundwater monitoring wells (MW-6 through MW-9).

Soil samples collected from soil borings B-22 (15 feet bgs), B-23 (15 feet bgs), B-24 (15 feet bgs), B-29 (18 feet bgs), and Hand Auger-1 (14 feet bgs) exhibited total BTEX and/or TPH GRO/DRO concentrations above New Mexico EMNRD OCD RALs. The groundwater samples collected from piezometers P-2 and P-3 and monitoring well MW-7 exhibited benzene, toluene, and/or total xylenes concentrations above the WQCC GQSs. Non-aqueous phase liquid (NAPL) was reportedly present in piezometer P-1. Lodestar concluded that soil and groundwater impact was limited to the bermed area and slightly outside of the bermed area in the down-gradient (northwest) direction.

November 2009/ February 2010

Area 1: *November 2009 Groundwater Sampling* (Lodestar – December 17, 2009)*, Quarterly Groundwater Monitoring Report* (Lodestar – April 20, 2010)*:* Groundwater sampling events were performed during November 2009 and February 2010 by Lodestar. The groundwater samples collected from groundwater monitoring wells MW-7 and P-2 (renamed as MW-11) exhibited benzene and/or total xylenes concentrations above the WQCC GQSs. NAPL was identified in piezometer P-1 during each of these two groundwater monitoring events.

January 2010

Area 1: *Largo Compressor Station Work Plan for Groundwater Remediation GW-211* (Lodestar – December 31, 2009)*:* Enterprise submitted a groundwater remediation work plan for the Site detailing the proposed injection of Oxygen Release Compound (ORC) and utilization of sorbent socks to the New Mexico EMNRD OCD.

February 2010

Area 1: The New Mexico EMNRD OCD approved the December 31, 2009 work plan, with conditions.

March/April 2010

Area 1: *Interim Remedial Investigation Report* (LTE – May 15, 2010)*:* During March of 2010, LT Environmental, Inc. (LTE), formerly Lodestar, advanced two (2) additional soil borings at the Site to total depths ranging from approximately 31 to 32 feet bgs. Groundwater was encountered in both soil borings with static water levels of 20 and 22 feet bgs. The two (2) soil borings were subsequently completed as two (2) inch groundwater monitoring wells (MW-15 and MW-16). LTE also replaced piezometer P-1 with a 4-inch groundwater monitoring well (MW-12) to allow NAPL collection utilizing

absorbent socks. Additionally, piezometers P-2, P-3, P-4, and P-5 were replaced with 2-inch groundwater monitoring wells MW-11, MW-3R, MW-14, and MW-13, respectively.

Area 1: During April 2010, LTE collected groundwater samples from the on-Site groundwater monitoring wells for TPH GRO/DRO and BTEX analyses. The groundwater samples collected from monitoring wells MW-7 and MW-12 exhibited benzene, toluene, and/or total xylenes concentrations above the WQCC GQSs.

May 2010

Area 1: A final C-141 was submitted to the New Mexico EMNRD OCD, indicating the need for additional studies.

Areas 1 through 4: On May 27, 2010, Enterprise submitted an extension request to the New Mexico EMNRD OCD pertaining to investigation activities at the Largo Compressor Station, citing a planned facility-wide investigation.

June 2010

Areas 1 through 4: *Proposed Facility-Wide Soil and Groundwater Investigation* (LTE – June 8, 2010): Enterprise submitted a work plan to provide a Site-wide assessment of the Largo Compressor Station.

Areas 1 through 4: The New Mexico EMRND OCD approved the proposed work plan submitted on June 10, 2010 with conditions.

June/July 2010

Area 1: *Groundwater Sampling Report* (LTE – September 10, 2010)*:* During June of 2010, LTE advanced ten (10) 4-inch boreholes utilizing hollow stem augers. The boreholes were advanced to the north and north-northwest of the containment berm. A slurry of 65% ORC solids and water was poured through the hollow stem augers at each borehole (approximately 30 pounds of ORC per borehole) to create a plug of ORC encompassing approximately five vertical feet, including the smear zone. A 2-foot thick bentonite seal was installed above the ORC slurry and the remainder of the borehole was backfilled with clean soil.

Area 1: During July 2010, LTE collected groundwater samples from the on-Site groundwater monitoring wells and submitted them for TPH GRO/DRO and BTEX analyses. The groundwater samples collected from monitoring wells MW-3R, MW-7, MW-11, MW-12, MW-15, and MW-16 exhibited benzene and/or total xylene concentrations above the WQCC GQSs.

November 2010

Areas 1 through 4: During November 2010, SWG advanced 17 soil borings across the facility as part of the Site-wide environmental investigation. Four (4) of these soil borings were completed as temporary sampling wells to allow the collection of a single groundwater sample prior to plugging and abandonment. The remaining 13 soil borings were completed as permanent two (2) inch diameter monitoring wells.

February/March 2011

Area 1: *Corrective Action Work Plan* (SWG – February 18, 2011): Enterprise proposed an in-situ chemical oxidation (ISCO) pilot study at the condensate storage tank area.

Areas 1 through 4: *Environmental Site Investigation* (SWG – March 24, 2011)*:* Enterprise submitted a report to the New Mexico EMNRD OCD

documenting the facility-wide investigation findings and subsequent groundwater monitoring results. Analytical results from the investigation confirmed the presence of hydrocarbon-affected soil and groundwater in the vicinity of the retention pond (Area 3). Additionally, benzene was identified at concentrations slightly above the WQCC GQSs in groundwater from monitoring well MW-39, located near the current compressors (Area 4).

The groundwater sample collected from monitoring well MW-42, located at a hydraulically up-gradient boundary of the Site, exhibited a total dissolved solids (TDS) concentration of 75,400 milligrams per liter (mg/L).

May 2011 — Area 1: Enterprise performed "pilot study" ISCO activities at the condensate storage tank release area. Approximately 3,500 gallons of injectate were introduced to the subsurface near monitoring well MW-12.

October 2011 — Area 1: *Corrective Action Pilot Study Report* (SWG – October 10, 2012): Enterprise submitted a report to the New Mexico EMNRD OCD documenting the "pilot study" implementation. Field observations during ISCO activities indicated historically impacted soils remained near the condensate tanks.

March 2012 — Areas 3 and 4: *SSI Work Plan* (SWG - January 12, 2012): Enterprise proposed additional field activities to further delineate dissolved-phase groundwater impact in Areas 3 and 4. Enterprise initiated the proposed investigative activities by installing six (6) monitoring wells to further evaluate COCs at the Site.

June 2012 — Areas 3 and 4: *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report* (SWG - June 31, 2012)*:* Enterprise submitted a report to the New Mexico EMNRD OCD which documented the initial SSI activities for Areas 3 and 4. The report included results from the quarterly monitoring event that was performed following the installation of the six (6) additional monitoring wells.

November 2012 — Area 3: Enterprise resumed the supplemental Site investigation, focusing on additional soil and groundwater COC delineation in Area 3.

March 2013 — Area 3: Enterprise submitted the *Supplemental Site Investigation Report – (November 2012 and January 2013)* (SWG – February 22, 2013) to the New Mexico EMNRD OCD documenting SSI activities for Area 3. The report documented the soil and groundwater sampling that was performed during the SSI activities, and identified a potential second source of impact near the retention pond area. Enterprise proposed remediation of soils in Areas 1 and 3 in the *Corrective Action Work Plan (Area 1 and Area 3 – Soils)* (SWG – March 11, 2013.)

May 2013 — Areas 1 and 3: *Largo Compressor Station – Background Sampling* (SWG – June 18, 2013)*:* Enterprise performed soil and groundwater sampling in the southeast portion of the Site to evaluate current background conditions. These activities were performed in advance of the proposed sourcing of backfill material from this area, and in advance of the proposed use of the area for soil treatment.

June through November 2013	Area 1: *Corrective Action Status Report (Area 1 – Soils)* (SWG – March 19, 2014): Enterprise submitted a letter report to the New Mexico EMNRD OCD documenting the construction of the treatment cell area and corrective action activities performed in Area 1.
August through October 2014	Area 1: *Annual Groundwater Monitoring Report (April and October 2014 Sampling Events) and Supplemental Site Investigation Report* (Apex – April 13, 2015): Enterprise installed three (3) additional groundwater monitoring wells downgradient of monitoring well MW-47 (which had been damaged by heavy equipment).
July 2016	Area 3: *Interim Corrective Action Report (Area 3) and Treated Soil Sampling (Area 1) Report* (Apex – July 14, 2016): Enterprise performed initial corrective action activities in Area 3 by removing hydrocarbon-affected soils in the vicinity of the retention pond. The previously treated soils from the former remediation of Area 1 were sampled and subsequently removed from the cells to make room in the upper treatment cells for the Area 3 soils.
May 2017	Area 1 and 3: *Soil Remediation Plan* (Apex – May 11, 2017): Enterprise submitted a Soil Remediation Plan to the New Mexico EMNRD OCD documenting proposed strategies to address the hydrocarbon soil impacts in Area 1 and Area 3.
June/July 2017	Area 3: Enterprise initiated a limited site investigation, soil vapor extraction (SVE) pilot testing, and remediation activities in Area 3. Impacted soils in Area 3 are being removed by excavation and transported off Site for disposal/remediation.
August 2017	Area 1 and 3: *Soil Remediation Plan Amendment – Summary of Soil Vapor Extraction Pilot Testing and Recommendations for Corrective Action* (Apex – August 14, 2017): Enterprise submitted a Plan Amendment to the New Mexico EMNRD OCD documenting the results of the SVE pilot testing that occurred at the Site and the proposed continued strategies for remediation of impacted soil and groundwater at the Site. Area 3 soil remediation (by excavation) activities are initiated.
September 2017	Area 1 and 3: *Soil Vapor Extraction and Air Sparging Work Plan* (Apex – September 15, 2017, updated November 14, 2017): Enterprise proposed SVE and air sparging (AS) field activities for remediation of impacted soil and groundwater at the Site.
April 2018	Area 1: Enterprise installed seven (7) SVE and six (6) AS wells in Area 1.
September 2018	Area 3: Enterprise advanced eight (8) soil borings north of the Largo facility fence in Area 3 to further delineate and evaluate the extent of hydrocarbon impact in soil. Additional excavation in this area continued into 2019.

1.3 Project Objective

The objective of the groundwater monitoring events conducted in 2018 was to further evaluate the concentrations of COCs in groundwater over time at the Site.

2.0 GROUNDWATER MONITORING - MAY AND OCTOBER 2018

2.1 Groundwater Sampling Program

Semi-annual groundwater sampling events were conducted during May and October 2018 by Apex. During February 2019, the environmental activities at the Site were transferred to Ensolum, LLC (Ensolum).

Information, data, and conclusions provided in the following sections and attached figures are based on information provided by Apex to Enterprise, and eyewitness accounts.

The groundwater sampling program consisted of the following:

Prior to sample collection, Apex gauged the depth to fluids in each monitoring well using an interface probe capable of detecting NAPL. Former monitoring wells MW-33 and MW-35, which exhibited NAPL during previous sampling events, were plugged and abandoned during 2015 to facilitate soil remediation activities. In addition, monitoring wells MW-36 and MW-37 were plugged and abandoned during 2017. It is anticipated that the monitoring well network will be enhanced to account for the removed monitoring wells during 2019/2020.

Each viable monitoring well was sampled utilizing micro-purge low-flow sampling techniques. Subsequent to the completion of the micro-purge process, one (1) groundwater sample was collected from each monitoring well.

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. 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) are maintained during sampling activities, using dedicated or decontaminated sampling equipment.

The groundwater samples are collected from each monitoring well once produced groundwater is consistent in color, clarity, pH, temperature, and conductivity. Measurements are taken every three to five minutes while purging. Purging is considered complete once key parameters (especially pH and conductivity) have stabilized for three successive readings.

The casing of monitoring well MW-75 is approximately 1.5-inches in diameter, which does not permit the use of the bladder pump for sampling. As a result, this monitoring well was purged until effectively dry utilizing a disposable bailer. Subsequent to the completion of the purging process and the recovery of groundwater to static or near static levels, one (1) groundwater sample was collected from the monitoring well.

Monitoring well MW-55 has exhibited a casing obstruction since May of 2017. Based on an inspection of the well during October 2018, the well screen appears to be compromised. However, during the May 2018 sampling event, Apex was able to collect enough water from the well to fill two (2) 40 milliliter (mL) VOAs utilizing a disposable bailer. The well was not purged prior to the collection of this sample due to insufficient water. Apex was not able to obtain an accurate depth to water measurement.

Groundwater samples were collected in laboratory supplied containers, labeled/sealed using the laboratory supplied labels and custody seals, and stored on ice in a cooler. The groundwater samples were relinquished to the courier for Hall Environmental Analysis Laboratory (HEAL) of Albuquerque, New Mexico under proper chain-of-custody procedures.

2.2 Groundwater Laboratory Analytical Methods

The groundwater samples collected from the monitoring wells during the 2018 groundwater sampling events were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) utilizing Environmental Protection Agency (EPA) method(s) SW-846 #8021/8260. The containers were pre-preserved by the laboratory with mercuric chloride ($HgCl_2$).

A summary of the per-event analytes, sample matrix, sample frequency and EPA-approved methods are presented on the following table.

Analytes	Sample Matrix	No. of Samples (per event)	EPA Method
BTEX	Groundwater	34/33	SW-846 8021/8260

Laboratory analytical results are summarized in **Table 1** in **Appendix B**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix C**.

2.3 Groundwater Flow Direction

Each of the monitoring wells has been surveyed to determine top-of-casing (TOC) elevations. Prior to sample collection, Apex gauged the depth to fluids in each monitoring well. The groundwater flow direction at the Site is generally toward the northwest, with an average gradient of approximately 0.003 feet per foot (ft/ft) across the Site.

Groundwater measurements collected during the 2018 gauging events (as well as historical data) are presented with TOC elevations in **Table 2** (**Appendix B**). Groundwater gradient maps prepared from the 2018 gauging events data are included as **Figure 4A** and **4B** (**Appendix A**).

2.4 Data Evaluation

Ensolum compared the BTEX laboratory analytical results or laboratory practical quantitation limits (PQLs) associated with the groundwater samples collected from monitoring wells during the May and October 2018 sampling events to the New Mexico WQCC *GQSs*.[1] The results of the groundwater sample analyses are summarized in **Table 1** of **Appendix B**. Groundwater Quality Standards Exceedance Zone maps are provided as **Figures 5A** and **5B** of **Appendix A**.

May 2018

Monitoring well MW-47 was not sampled due to structural damage that occurred in 2016. Monitoring well MW-55 has exhibited a casing obstruction since May of 2017. Based on an inspection of the well during October 2018, the well screen appears to be compromised. However, during the May 2018 sampling event, Apex was able to collect enough water from the well to fill two (2) 40 milliliter (mL) VOAs utilizing a disposable bailer. The well was not purged prior to the collection of this sample due to insufficient water. Apex was not able to obtain an accurate depth to water measurement.

The groundwater sample collected from monitoring well MW-7 exhibited a benzene concentration of 35 micrograms per liter (µg/L), which exceeds the WQCC GQS[1] of 10 µg/L. The groundwater samples collected from monitoring wells MW-15 and MW-39 exhibited benzene concentrations of 1.3 µg/L and 1.2 µg/L, respectively, which are less than the WQCC GQS[1] of 10 µg/L. The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the laboratory PQLs,

which are less than or equal to (MW-55) the WQCC GQS[1] of 10 µg/L.

The groundwater samples collected from the monitoring wells did not exhibit toluene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 750 µg/L.

The groundwater samples collected from the monitoring wells did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 750 µg/L.

The groundwater sample collected from the monitoring wells did not exhibit total xylenes concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 620 µg/L.

Data Qualifier Flags

Sample ID	Data Qualifier Flag	Comments/Reactions
MW-55 (collected 5/10/2018)	Sample Diluted Due to Matrix.	The sample was diluted due to matrix interference.

October 2018

Monitoring well MW-47 was not sampled due to structural damage from vehicular traffic in 2016. Monitoring well MW-55 was not sampled due to an obstruction in the well casing. The screen at monitoring well MW-55 appears to be compromised.

The groundwater samples collected from monitoring wells MW-7 and MW-48 exhibited benzene concentrations of 5,800 µg/L and 11 µg/L, respectively, which exceed the WQCC GQS[1] of 10 µg/L. The groundwater samples collected from monitoring wells MW-15 and MW-39 exhibited benzene concentrations of 2.2 µg/L and 1.2 µg/L, respectively, which are less than the WQCC GQS[1] of 10 µg/L. The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 10 µg/L.

The groundwater samples collected from the monitoring wells did not exhibit toluene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 750 µg/L.

The groundwater samples collected from monitoring wells MW-7 and MW-48 exhibited ethylbenzene concentrations of 63 µg/L and 7.0 µg/L, respectively, which are less than the WQCC GQS[1] of 750 µg/L. The groundwater samples collected from the remaining monitoring wells did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 750 µg/L.

The groundwater sample collected from monitoring well MW-48 exhibited a total xylenes concentration of 10 µg/L, which is less than the WQCC GQS[1] of 620 µg/L. The groundwater samples collected from the remaining monitoring wells did not exhibit total xylene concentrations above the laboratory PQLs, which are less than the WQCC GQS[1] of 620 µg/L.

Although not flagged by the laboratory, the October 2018 sample from monitoring well MW-7 was diluted by a factor of 100 to derive the benzene result.

Data Qualifier Flags		
Sample ID	**Data Qualifier Flag**	**Comments/Reactions**
MW-7 (collected 10/5/2018)	Not Present.	The sample was diluted due to matrix interference.

3.0 FINDINGS AND RECOMMENDATIONS

Semi-annual groundwater monitoring events were conducted by Apex at the Largo Compressor Station during May and October 2018. The objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater at the Site.

- Groundwater analytical data collected from the Site seems to indicate that the petroleum hydrocarbon impact to the shallow groundwater-bearing unit is primarily delineated within the existing monitoring well network. The hydraulic gradient in Area 3 appears to be affected by a north-trending subsurface paleochannel.

- The groundwater flow direction at the Site is generally towards the northwest, with an average gradient of 0.003 ft/ft across the Site.

- During the May 2018 sampling event, the groundwater sample collected from monitoring well MW-7 exhibited a benzene concentration of 35 µg/L, which exceeds the WQCC GQS[1] of 10 µg/L.

- Benzene concentrations at monitoring well MW-7, while continuing to fluctuate, are trending higher over the last five sampling events (10/14/16 through 10/05/18) when compared to the data from 4/24/13 through 4/27/16.

- During the October 2018 sampling event, the groundwater samples collected from monitoring wells MW-7 and MW-48 exhibited benzene concentrations of 5,800 µg/L and 11 µg/L, respectively, which exceed the WQCC GQS of 10 µg/L

- Benzene concentrations at monitoring well MW-39 exhibited trace benzene concentrations during each of the 2018 monitoring events.

Based on the results of groundwater monitoring activities, Ensolum has the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;

- Reinstall monitoring wells within the primary COC plume areas and enhance the monitoring well network where necessary; and,

- Increase the sampling frequencies to pertinent portions of the monitoring well network to quarterly monitoring, as described in the Stage 1 Abatement Plan, and develop a Stage 2 Abatement Plan once the Stage 1 Abatement Plan has been approved by the New Mexico EMNRD OCD and has been implemented.

4.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

4.1 Standard of Care

Ensolum'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. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum 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, as detailed in our proposal.

4.2 Additional Limitations

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 Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during field activities. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

4.3 Reliance

This report has been prepared for the exclusive use of Enterprise Products Operating LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Products Operating LLC and Ensolum. 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 report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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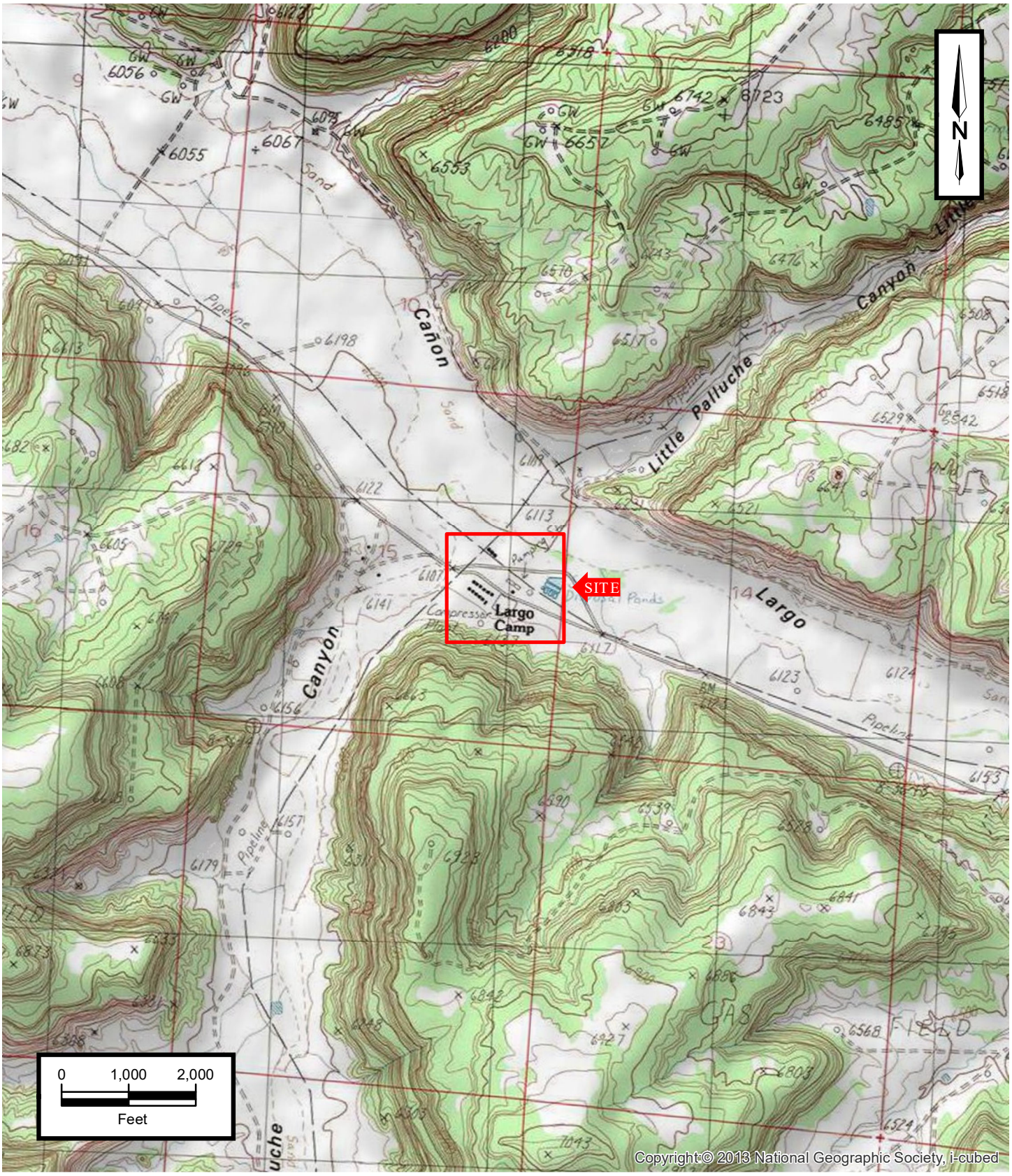
APPENDIX A

Figures



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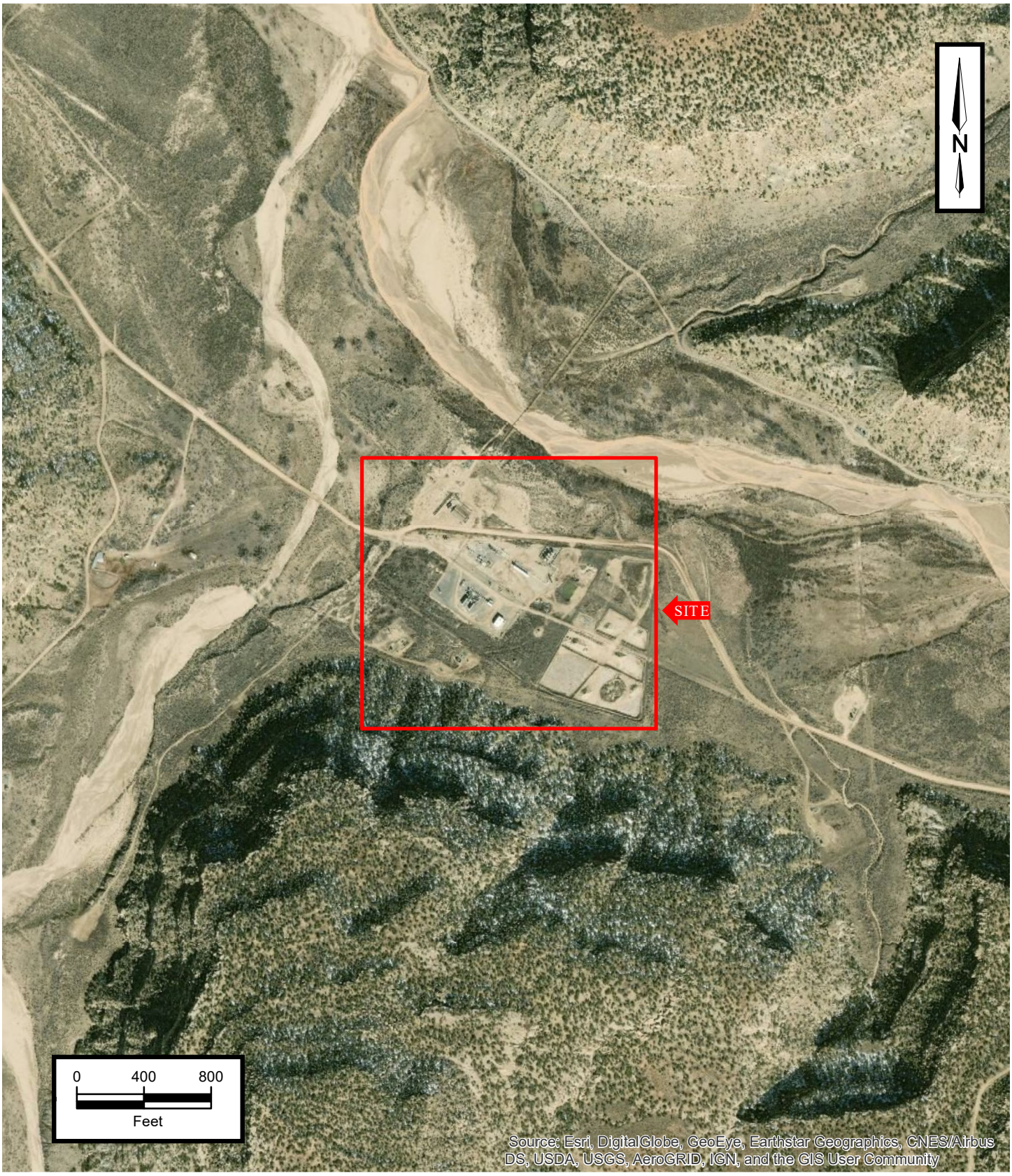
TOPOGRAPHIC MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION
NE ¼ and SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

PROJECT NUMBER: 05A1226001

FIGURE
1



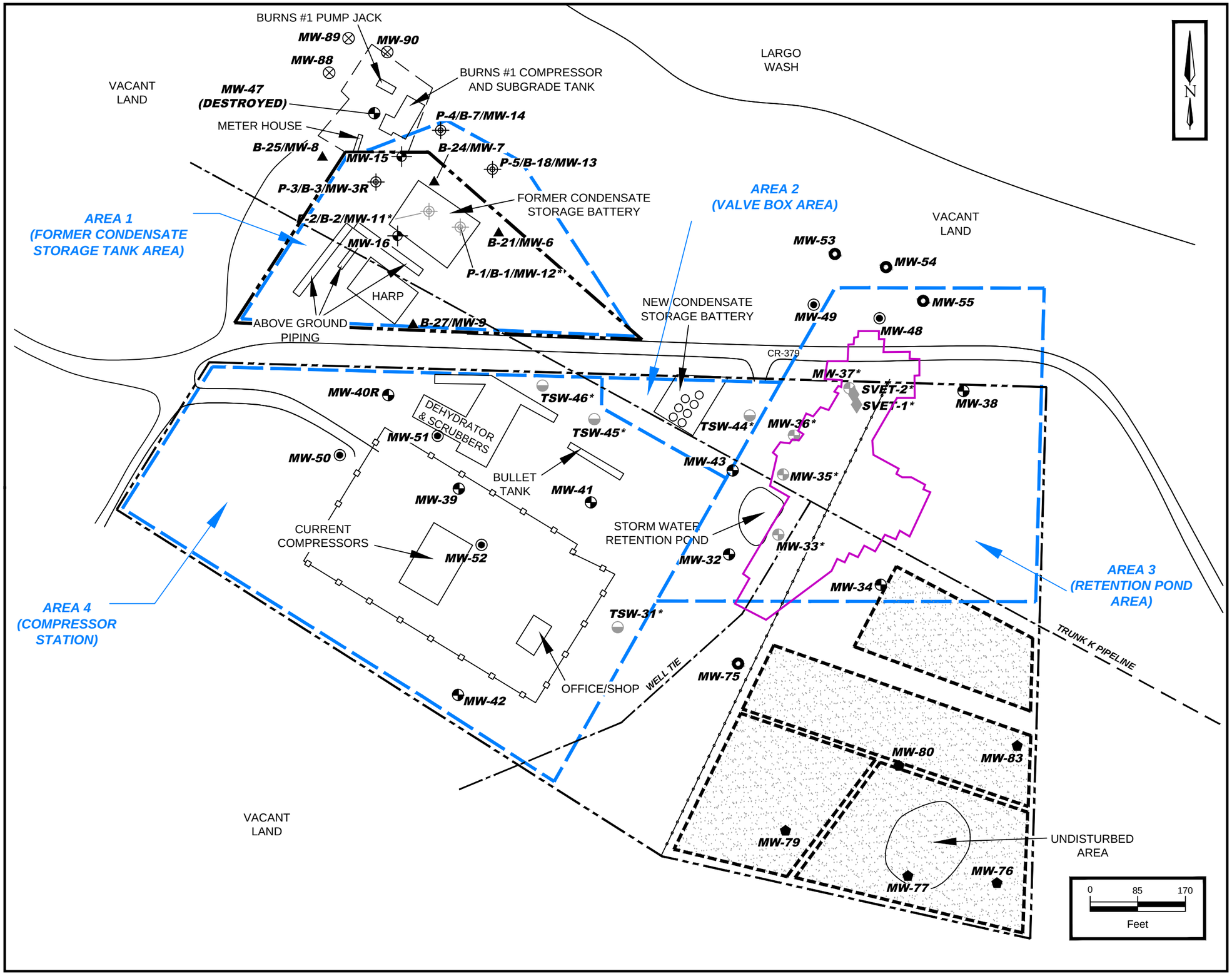
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE VICINITY MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION
NE ¼ and SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

PROJECT NUMBER: 05A1226001

FIGURE
2



LEGEND

- SITE BOUNDARY
- GRAVEL
- BERM
- PIPELINE
- FORMER TREATMENT CELL
- MONITORING WELL INSTALLED BY APEX (AUGUST 2014)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SVE TEST WELL LOCATION 2017
- APPROXIMATE FORMER AREA 3 EXCAVATION

* Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

ENSOLUM
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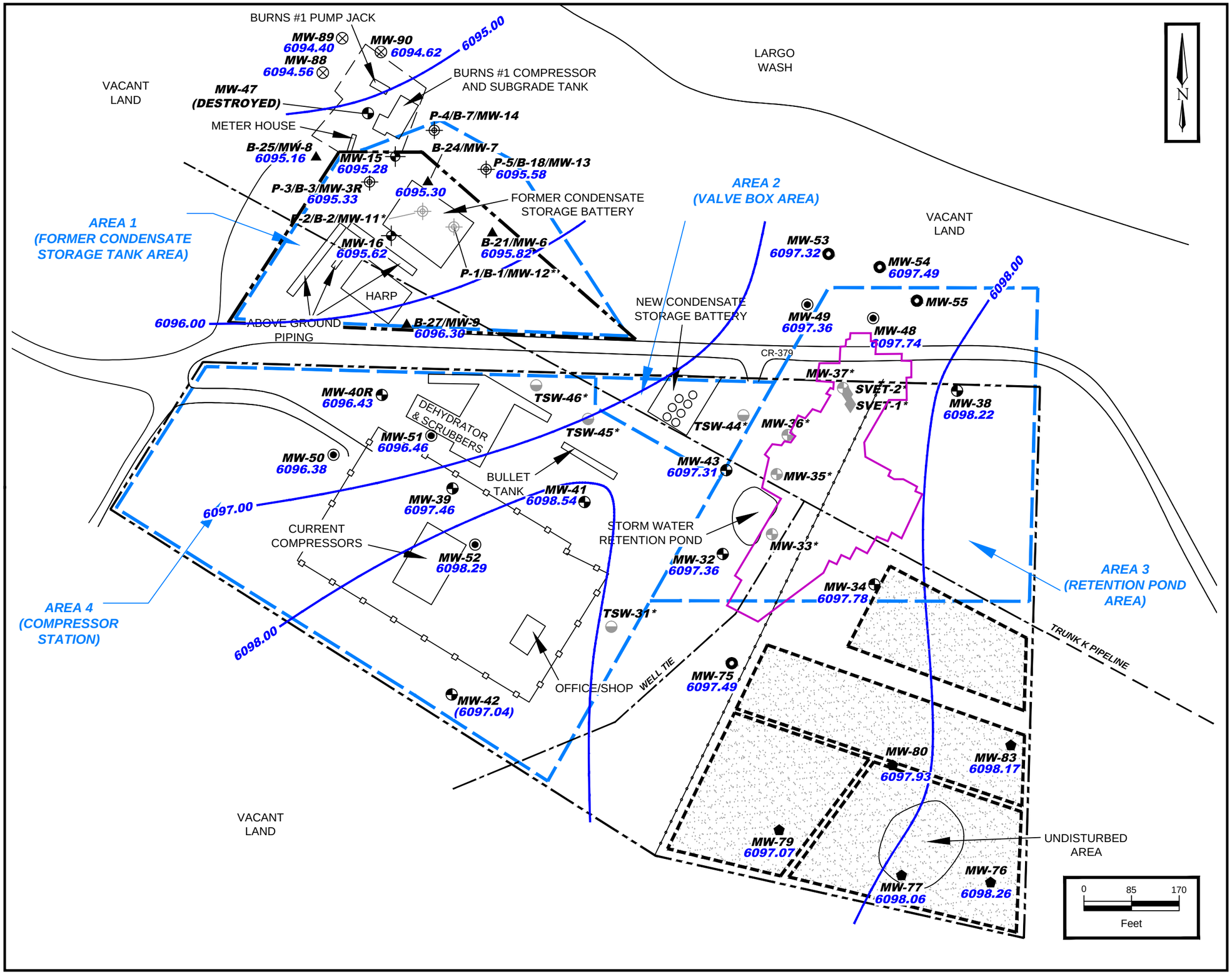
SITE MAP

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
3

Ensolum Project No : 05A1226001



LEGEND

- SITE BOUNDARY
- GRAVEL
- BERM
- PIPELINE
- FORMER TREATMENT CELL
- MONITORING WELL INSTALLED BY APEX (AUGUST 2014)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SVE TEST WELL LOCATION 2017
- 6096.94 GROUNDWATER ELEVATION (FEET AMSL)
- 6098.00 GROUNDWATER ELEVATION CONTOUR (FEET AMSL) (CONTOUR INTERVAL = 1.0 FT)
- (6097.04) DATA NOT USED FOR CONTOURING
- APPROXIMATE FORMER AREA 3 EXCAVATION

NOTE

Monitoring well MW-55 appears to have an obstruction in the casing.

* Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

ENSOLUM
Environmental & Hydrogeologic Consultants

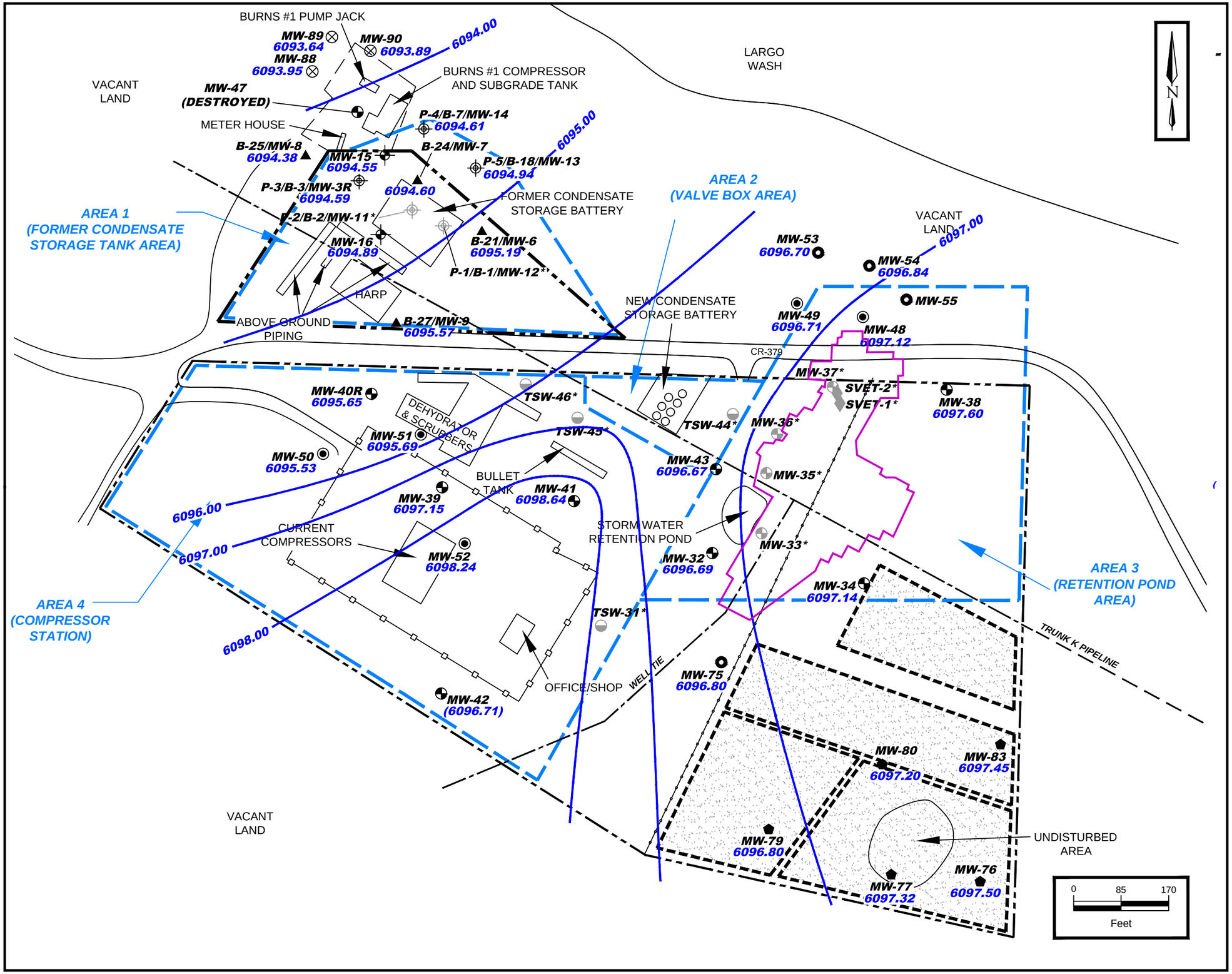
GROUNDWATER GRADIENT MAP (MAY 2018)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
4A

Ensolum Project No : 05A1226001



LEGEND

- SITE BOUNDARY
- GRAVEL
- BERM
- PIPELINE
- FORMER TREATMENT CELL
- MONITORING WELL INSTALLED BY APEX (AUGUST 2014)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SVE TEST WELL LOCATION 2017
- 6096.94 GROUNDWATER ELEVATION (FEET AMSL)
- 6098.00 GROUNDWATER ELEVATION CONTOUR (FEET AMSL) (CONTOUR INTERVAL = 1.0 FT)
- (6096.71) DATA NOT USED FOR CONTOURING
- APPROXIMATE FORMER AREA 3 EXCAVATION

NOTE

Monitoring well MW-55 appears to have an obstruction in the casing.

* Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

ENSOLUM
Environmental & Hydrogeologic Consultants

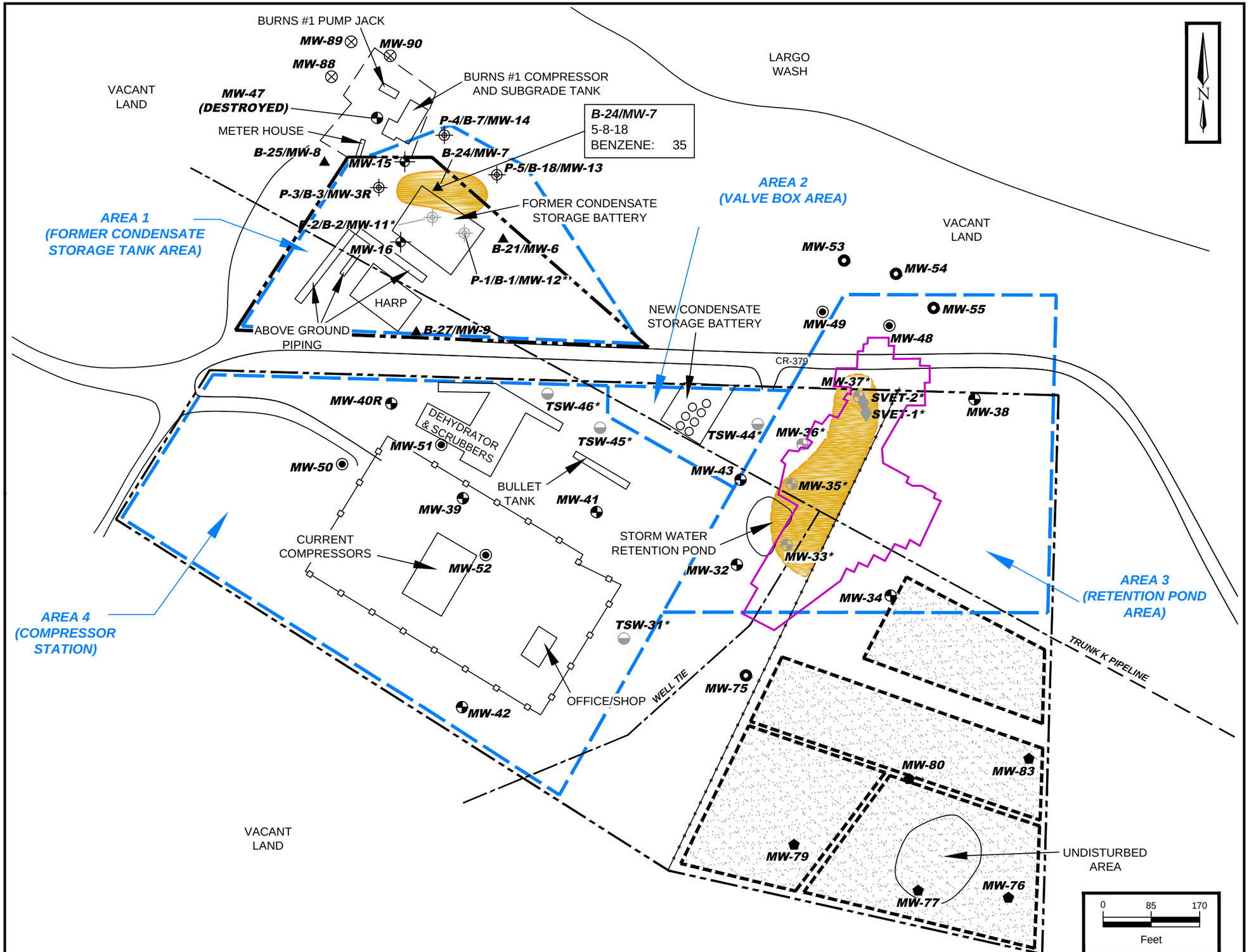
GROUNDWATER GRADIENT MAP (OCTOBER 2018)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
4B

Ensolum Project No : 05A1226001



LEGEND

- SITE BOUNDARY
- GRAVEL
- BERM
- PIPELINE
- FORMER TREATMENT CELL
- MONITORING WELL INSTALLED BY APEX (AUGUST 2014)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SVE TEST WELL LOCATION 2017
- ESTIMATED GQS EXCEEDANCE ZONE
- APPROXIMATE FORMER AREA 3 EXCAVATION

* Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

ENSOLUM
Environmental & Hydrogeologic Consultants

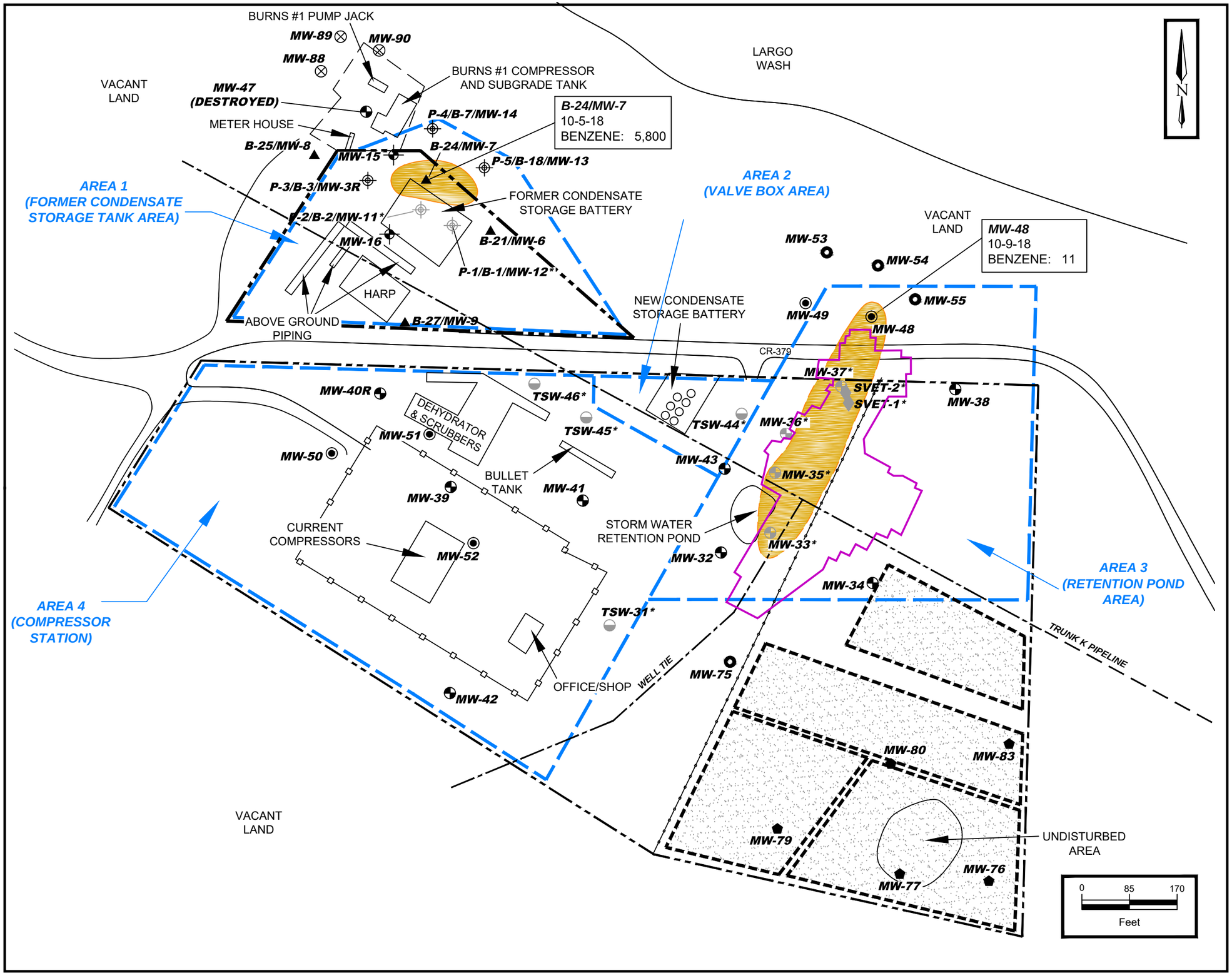
GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (MAY 2018)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
5A

Ensolum Project No : 05A1226001



LEGEND

- SITE BOUNDARY
- GRAVEL
- BERM
- PIPELINE
- FORMER TREATMENT CELL
- MONITORING WELL INSTALLED BY APEX (AUGUST 2014)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SVE TEST WELL LOCATION 2017
- ESTIMATED GQS EXCEEDANCE ZONE
- APPROXIMATE FORMER AREA 3 EXCAVATION

* Denotes plugged and abandoned monitoring wells, temporary sampling wells, and SVE test wells.

ENSOLUM
Environmental & Hydrogeologic Consultants

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE MAP (OCTOBER 2018)

ENTERPRISE FIELD SERVICES, LLC
LARGO COMPRESSOR STATION

NE ¼ & SE ¼, S15 T26N R7W, Rio Arriba County, New Mexico
36.4855° N, 107.5578° W

FIGURE
5B

Ensolum Project No : 05A1226001

ENSOLUM

APPENDIX B

Tables

ENSOLUM

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
Monitoring Wells Installed by Lodestar								
P-3	4.04.08	NA	**780**	13	81	20	4.2	<1.0
	8.10.09	NA	**35**	<1.0	3.8	<2.0	NA	NA
	11.24.09	NA	1.4	<1.0	1.5	<2.0	NA	NA
	2.25.10	NA	3.6	10	2	24	NA	NA
MW-3R (P-3*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**13**	<1.0	1.3	6.4	1.4	1
	8.26.10	NA	5.0	<1.0	<1.0	2.3	0.46	<1.0
	11.18.10	NA	3.9	<1.0	<1.0	<2.0	0.47	<1.0
	2.1.11	NA	2.0	<1.0	<1.0	<2.0	0.16	<1.0
	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	1.5	<1.0	<1.0	7.1	1.50	<1.0
	10.27.11	NA	1.1	<1.0	<1.0	<2.0	0.57	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	0.36	<1.0
	10.19.12	NA	<1.0	<1.0	1.2	2.8	0.48	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	2.8	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	8,420	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

ENSOLUM

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-7	8.10.09	NA	**15,000**	<100	380	310	NA	NA
	11.24.09	NA	**13,000**	<100	150	<200	NA	NA
	2.25.10	NA	**3,000**	<10	40	31	NA	NA
	4.05.10	NA	**940**	<10	<10	<20	4.2	1.3
	5.27.10	NA	**700**	<10	11	<20	NA	NA
	7.13.10	NA	**15,000**	<10	130	25	51	4.6
	8.26.10	NA	**5,300**	<20	35	<40	18	1.7
	11.18.10	NA	**3,700**	<20	62	<40	11	1.2
	2.1.11	NA	**1,800**	<1.0	10	4.6	2.2	<1.0
	4.19.11	NA	**250**	<1.0	2.9	2.4	0.75	<1.0
	5.19.11	NA	**1,400**	<5.0	15.0	<10	4.0	<1.0
	7.28.11	NA	**75**	<5.0	200	62.0	45	2.7
	10.28.11	NA	**1,300**	<10	140	<20	32	6.1
	1.31.12	NA	**9,000**	<10	110	<20	21	4.5
	4.19.12	NA	**790**	<10	15	<20	2.7	<1.0
	7.31.12	NA	**2,500**	<10	35	<20	6.4	<1.0
	10.19.12	NA	**8,200**	<10	130	36.0	32	2.5
	4.24.13	NA	**120**	<1.0	2.1	<2.0	0.60	<1.0
	10.25.13	NA	**45**	<1.0	<1.0	<2.0	0.19	<1.0
	4.22.14	NA	**43**	<1.0	<1.0	3.1	0.13	<1.0
	10.29.14	NA	2.3	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	**24**	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	**25**	<1.0	<1.0	3.6	NA	NA
	4.27.16	NA	7.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	**500**	<1.0	6.7	2.3	NA	NA
	5.18.17	NA	**27**	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	**1,300**	<1.0	17	<2.0	NA	NA
	5.08.18	NA	**35**	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	**5,800**	<1.0	63	<2.0	NA	NA
MW-8	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

ENSOLUM

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-9	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-2	4.04.08	NA	**15,000**	**2,100**	380	**4,600**	120	6.8
	8.10.09	NA	**9,800**	110	170	**1,400**	NA	NA
	11.24.09	NA	**21,000**	360	460	**2,700**	NA	NA
	2.25.10	NA	**19,000**	380	380	**2,800**	NA	NA
MW-11 (P-2*)	4.05.10	NA	<1.0	<1.7	<1.0	3.3	0.22	<1.0
	5.27.10	NA	4.4	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**700**	4.5	11	56	3.6	1.2
	8.26.10	NA	**86**	<1.0	1.3	4.9	0.4	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	0.14	<1.0
	2.4.11	NA	**21**	<1.0	<1.0	<1.0	0.075	<1.0
	4.19.11	NA	**96**	12	1.2	27	0.39	<1.0
	7.28.11	NA	**46**	<1.0	38	76	11	1.7
	10.28.11	NA	**1,600**	<10	31	37	4.6	2.2
	1.31.12	NA	**470**	<10	12	<20	1.3	<1.0
	4.19.12	NA	**84**	<1.0	3.2	<2.0	0.43	<1.0
	7.31.12	NA	**36**	<1.0	2.6	<2.0	0.24	<1.0
	10.19.12	NA	**1,100**	<1.0	11	41	5.3	<1.0
	4.24.13	NA	**40**	<1.0	1.5	<2.0	0.14	<1.0
	9.6.13	Monitor well was removed during remediation						

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
P-1	4.04.08	NA	**5,700**	**2,200**	310	**5,500**	53	<1.0
	8.10.09	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
	11.24.09	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
	2.25.10	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**	**NAPL**
MW-12 (P-1*)	4.05.10	NA	**1,300**	**1,600**	110	**2,200**	20	1.2
	5.27.10	NA	**3,300**	**1,800**	180	**3,200**	NA	NA
	7.13.10	NA	**2,900**	330	140	**1,700**	22	1.0
	8.26.10	NA	**1,200**	420	70	**1,300**	13	<1.0
	11.18.10	NA	**1,100**	69	61	**720**	6.3	<1.0
	2.4.11	NA	**5,900**	<50	470	**1,600**	24	<1.0
	4.19.11	NA	**4,200**	190	<100	330	14	<1.0
	5.19.11	NA	**1,000**	520	36	**660**	13	15
	7.28.11	NA	**12,000**	**2,300**	320	**3,200**	54	3.9
	10.28.11	NA	**4,900**	59	130	**3,300**	29	7.3
	1.31.12	NA	**4,400**	62	110	**1,500**	18	11
	4.19.12	NA	**4,300**	53	150	**930**	22	5.8
	7.31.12	NA	**4,600**	<50	160	**920**	17	3.3
	10.19.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.24.13	NA	**6,900**	150	96	**850**	23	5.8
	9.6.13	Monitor well was removed during remediation						
P-5	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.1	<1.0
	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	1.8	6.1	<1.0	11	NA	NA
MW-13 (P-5*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	2.3.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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Largo Compressor Station
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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
P-4	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.42	<1.0
	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	2.25.10	NA	2.5	7.5	<1.0	14	NA	NA
MW-14 (P-4*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	2.1.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.22.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-15	4.05.10	NA	1.1	<1.0	<1.0	<2.0	<0.05	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
	7.13.10	NA	**490**	2.2	7.2	15	3.2	<1.0
	8.26.10	NA	**20**	<1.0	<1.0	<2.0	0.095	<1.0
	11.18.10	NA	8.9	<1.0	<1.0	<2.0	0.19	<1.0
	2.1.11	NA	**16**	<1.0	<1.0	<2.0	0.06	<1.0
	4.18.11	NA	**13**	<1.0	<1.0	<2.0	0.14	<1.0
	7.28.11	NA	**1500**	<1.0	19	20	6.7	<1.0
	10.28.11	NA	**810**	<10	<10	<20	2.2	1.0
	1.30.12	NA	**150**	<10	<10	<20	0.51	<1.0
	4.18.12	NA	**23**	<1.0	1.4	<2.0	0.21	<1.0
	7.31.12	NA	**64**	<1.0	1.1	<2.0	0.22	<1.0
	10.19.12	NA	**400**	<1.0	7.2	7.8	2.0	<1.0
	4.24.13	NA	6.4	<1.0	<1.0	<2.0	0.094	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	**28**	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	1.3	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	2.2	<1.0	<1.0	<2.0	NA	NA

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Largo Compressor Station
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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-16	4.05.10	NA	3.8	1.5	1.4	11	0.36	<1.0
	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	7.13.10	NA	**47**	<1.0	<1.0	<2.0	0.3	<1.0
	8.26.10	NA	**16**	<1.0	<1.0	<2.0	0.095	<1.0
	11.18.10	NA	3.4	<1.0	<1.0	<2.0	0.11	<1.0
	2.1.11	NA	**61**	<1.0	1.3	2.1	0.20	<1.0
	4.18.11	NA	**34**	<1.0	3.7	4.4	0.16	<1.0
	7.28.11	NA	**43**	<1.0	1.9	<2.0	0.29	<1.0
	10.27.11	NA	**21**	<1.0	<1.0	<2.0	0.19	<1.0
	1.30.12	NA	**10**	<1.0	<1.0	<2.0	0.096	<1.0
	4.18.12	NA	**20**	<1.0	1.0	<2.0	0.14	<1.0
	7.31.12	NA	**46**	<1.0	1.9	<2.0	0.23	<1.0
	10.19.12	NA	**100**	<1.0	3.9	<2.0	0.38	<1.0
	4.24.13	NA	**10**	<1.0	<1.0	<2.0	0.097	<1.0
	10.28.13	NA	**11**	<1.0	1.2	<2.0	0.052	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.15	NA	1.6	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	3.0	<1.0	<1.0	<2.0	NA	NA
	4.27.16	NA	6.5	<1.0	1.1	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	3.1	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
Monitoring Wells Installed by Apex TITAN (formerly Southwest Geoscience)								
TSW-31	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17[B]	NA	NS	NS	NS	NS	NS	NS
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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Largo Compressor Station
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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-33	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.21.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.27.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.28.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.22.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.29.16	Monitoring well removed during October 2015 remediation						
MW-34	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-35	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.21.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.27.14	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.28.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	10.22.15	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
	4.29.16	Monitoring well removed during October 2015 remediation						

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-36	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<1.0	2.1	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.23.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17[1]	NA	NS	NS	NS	NS	NS	NS
	02.27.18	Monitoring well removed during October 2017 remediation						
MW-37	2.4.11	NA	**3,100**	**6,200**	700	**7,000**	38	3.9
	4.20.11	NA	**2,500**	**3,600**	500	**5,100**	34	4.2
	7.28.11	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	10.26.11	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	1.27.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.18.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	7.30.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	10.19.12	NA	**NAPL**	**NAPL**	**NAPL**	**NAPL**	NAPL	NAPL
	4.23.13	NA	**670**	260	230	**1,100**	13	4.1
	10.29.13	NA	**580**	170	150	610	10	7.7
	4.24.14	NA	**740**	49	120	450	7.2	4.9
	10.30.14	NA	**770**	<20	140	510	NA	NA
	5.7.15	NA	**1,500**	220	330	**1,300**	NA	NA
	10.23.15	NA	**1,000**	21	360	**2,000**	NA	NA
	5.2.16	NA	**820**	<10	180	510	NA	NA
	11.8.16	NA	**590**	<10	340	**1,600**	NA	NA
	5.24.17	NA	**1,100**	<10	480	**2,200**	NA	NA
	10.17.17	NA	**750**	<5.0	280	**1,100**	NA	NA
	03.08.18	Monitoring well removed during October 2017 remediation						
MW-38	1.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	3,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-39	1.26.11	NA	**1,200**	730	37	570	11	<1.0
	4.19.11	NA	**120**	<1.0	1.6	5.9	0.33	<1.0
	7.29.11	NA	**27**	14	1.9	18	0.80	<1.0
	10.27.11	NA	**260**	<1.0	1.2	3.5	0.44	<1.0
	1.27.12	NA	**580**	48	4.3	79	1.8	<1.0
	4.18.12	NA	**1,500**	620	36	**860**	12	112
	7.30.12	NA	**170**	<2.0	<2.0	8.6	0.58	<1.0
	10.17.12	NA	**13**	<2.0	<2.0	<4.0	<0.10	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	**18**	<1.0	<1.0	<2.0	0.11	<1.0
	4.23.14	NA	9.6	<1.0	<1.0	<2.0	0.056	<1.0
	10.29.14	NA	5.5	<1.0	<1.0	<2.0	NA	NA
	5.7.15	NA	**25**	<1.0	<1.0	3.1	NA	NA
	10.29.15	NA	**13**	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	9.8	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	4.1	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	1.9	<1.0	<1.0	<1.5	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.11.18	NA	1.2	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	1.2	<1.0	<1.0	<2.0	NA	NA
MW-40 **	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.20.11	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.26.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	1.27.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40R	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	7,930	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-41	1.31.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	4.18.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	7.29.11	NA	<5.0	<5.0	<5.0	<10	<0.050	<1.0
	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	30,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	3.8	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-42	2.4.11	NA	<5.0	<5.0	<5.0	<10	<0.25	NA
	3.3.11	75,400	NA	NA	NA	NA	NA	NA
	4.19.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.16.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
	4.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	4.21.14	NA	Insufficient water to collect sample.					
	10.29.14	NA	Insufficient water to collect sample.					
	4.28.15	NA	Insufficient water to collect sample.					
	10.22.15	NA	Insufficient water to collect sample.					
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	Insufficient water to collect sample.					
	5.17.17	NA	<5.0	<5.0	<5.0	<10	NA	NA
	10.17.17	NA	Insufficient water to collect sample.					
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.04.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-43	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	0.06	<1.0
	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.16.12	7,630	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	10.24.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
TSW-44	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-45	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-46	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-47	1.28.11	NA	<5.0	<5.0	<5.0	<10	1.3	2.5
	4.18.11	NA	<5.0	<5.0	<5.0	<10	2.0	1.2
	7.28.11	NA	<5.0	<5.0	<5.0	27.0	6.6	1.1
	10.28.11	NA	<5.0	<5.0	<5.0	<10	1.4	2.7
	1.30.12	NA	<5.0	<5.0	<5.0	<10	2.6	2.5
	4.18.12	NA	**11**	<5.0	16	38	5.5	2.9
	7.31.12	NA	<10	<10	<10	<20	4.5	2.9
	10.18.12	NA	<5.0	<5.0	<5.0	91	12	1.8
	4.24.13	NA	<5.0	<5.0	5.0	<10	6.4	2.3
	10.24.13	NA	**190**	<5.0	8.9	<10	9.1	4.7
	4.28.14	NA	**700**	<5.0	27	<10	8.5	4.0
	10.29.14	NA	**750**	<10	29	<20	NA	NA
	5.7.15	NA	**420**	<10	25	<20	NA	NA
	10.29.15	NA	**92**	<1.0	21	2.8	NA	NA
	4.28.16	Monitoring well damaged by traffic						

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-48	4.18.12	NA	**290**	**3,200**	360	**5,000**	25	1.3
	7.30.12	NA	**120**	**1,100**	160	**2,900**	15	<1.0
	10.17.12	NA	**190**	580	150	**1,700**	8.5	<1.0
	4.23.13	NA	**140**	<5.0	170	310	2.9	<1.0
	10.29.13	NA	**67**	<5.0	51	83	0.87	<1.0
	4.28.14	NA	9.2	<1.0	7.8	15	0.25	<1.0
	10.30.14	NA	**48**	<1.0	40	60	NA	NA
	5.7.15	NA	3.1	<1.0	3.8	5.6	NA	NA
	10.27.15	NA	**51**	<1.0	33	53	NA	NA
	4.28.16	NA	2.0	<1.0	1.9	2.9	NA	NA
	10.17.16	NA	**26**	<1.0	17	26	NA	NA
	5.23.17	NA	3.1	<1.0	1.7	1.6	NA	NA
	10.17.17	NA	**28**	<1.0	17	21	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	**11**	<1.0	7	10	NA	NA
MW-49	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-50	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.30.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.14.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.12.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-51	4.18.12	NA	**1,200**	**3,600**	150	**1,400**	19	<1.0
	7.30.12	NA	**51**	5.5	17	78	1.3	<1.0
	10.16.12	NA	**14**	<1.0	4.8	21	0.16	<1.0
	4.23.13	NA	3.0	<1.0	1.5	<2.0	0.078	<1.0
	10.23.13	NA	8.2	<1.0	<1.0	<2.0	0.066	<1.0
	4.23.14	NA	1.1	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	5.3	<1.0	<1.0	<2.0	NA	NA
	5.7.15	NA	2.3	<1.0	<1.0	<2.0	NA	NA
	10.29.15	NA	4.9	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	1.7	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	4.9	<1.0	<1.0	<2.0	NA	NA
	5.19.17	NA	1.3	<1.0	<1.0	<2.0	NA	NA
	10.12.17	NA	1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-52	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.17.12	27,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.13	NA	**30**	<1.0	<1.0	<2.0	0.11	<1.0
	10.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.29.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.11.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-53	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.09.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-54	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.28.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.09.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.08.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-55	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	05.03.13	NA	<1.0	<1.0	13	**710**	1.3	<1.0
	10.29.13	NA	<1.0	<1.0	1.4	<2.0	<0.050	<1.0
	4.28.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.30.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.6.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.16	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.17.17	NA	NS	NS	NS	NS	NS	NS
	10.17.17	NA	NS	NS	NS	NS	NS	NS
	5.10.18	NA	<10	<10	<10	<15	NA	NA
	10.08.18	Casing blockage appears to be damaged screen						
MW-75	01.29.13	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.24.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.26.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.17.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.04.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-76	6.3.13	14,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<2.0	<2.0	<2.0	<4.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-77	6.3.13	17,900	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-79	6.3.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.23.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-80	6.3.13	13,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.4.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.27.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.2.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.20.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.16.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.11.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-83	6.3.13	14,500	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	4.23.14	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	10.28.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.1.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.29.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.19.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.22.17	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.13.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.10.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.10.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-88	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
Applicable New Mexico Water Quality Control Commmission Groundwater Quality Standards[A]			10[A]	750[A]	750[A]	620[A]	NE	NE
MW-89	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-90	10.29.14	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.28.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.22.15	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	4.26.16	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.13.16	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	5.18.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	10.11.17	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
	5.08.18	NA	<1.0	<1.0	<1.0	<1.5	NA	NA
	10.05.18	NA	<1.0	<1.0	<1.0	<2.0	NA	NA

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

A = NMOCD District 3 has advised that the new 20.6.2 NMAC standards (12/21/18) will not be enforced by NMOCD until sometime in 2020.

B = Monitoring well inaccessible due to 2017 excavation activities

µg/L = micrograms per liter

mg/L = milligrams per liter

NA = Not Analyzed

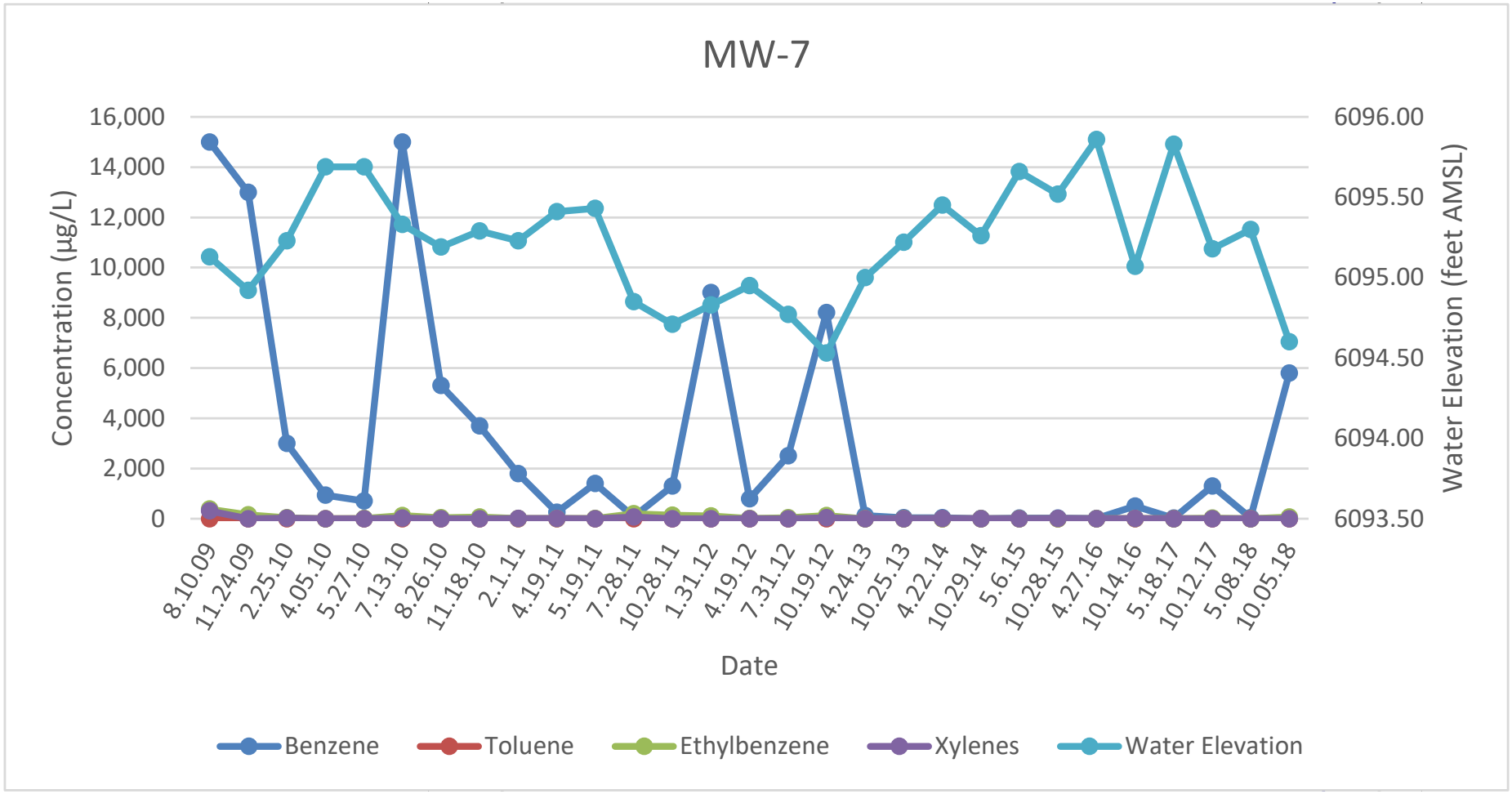
NE = Not Established

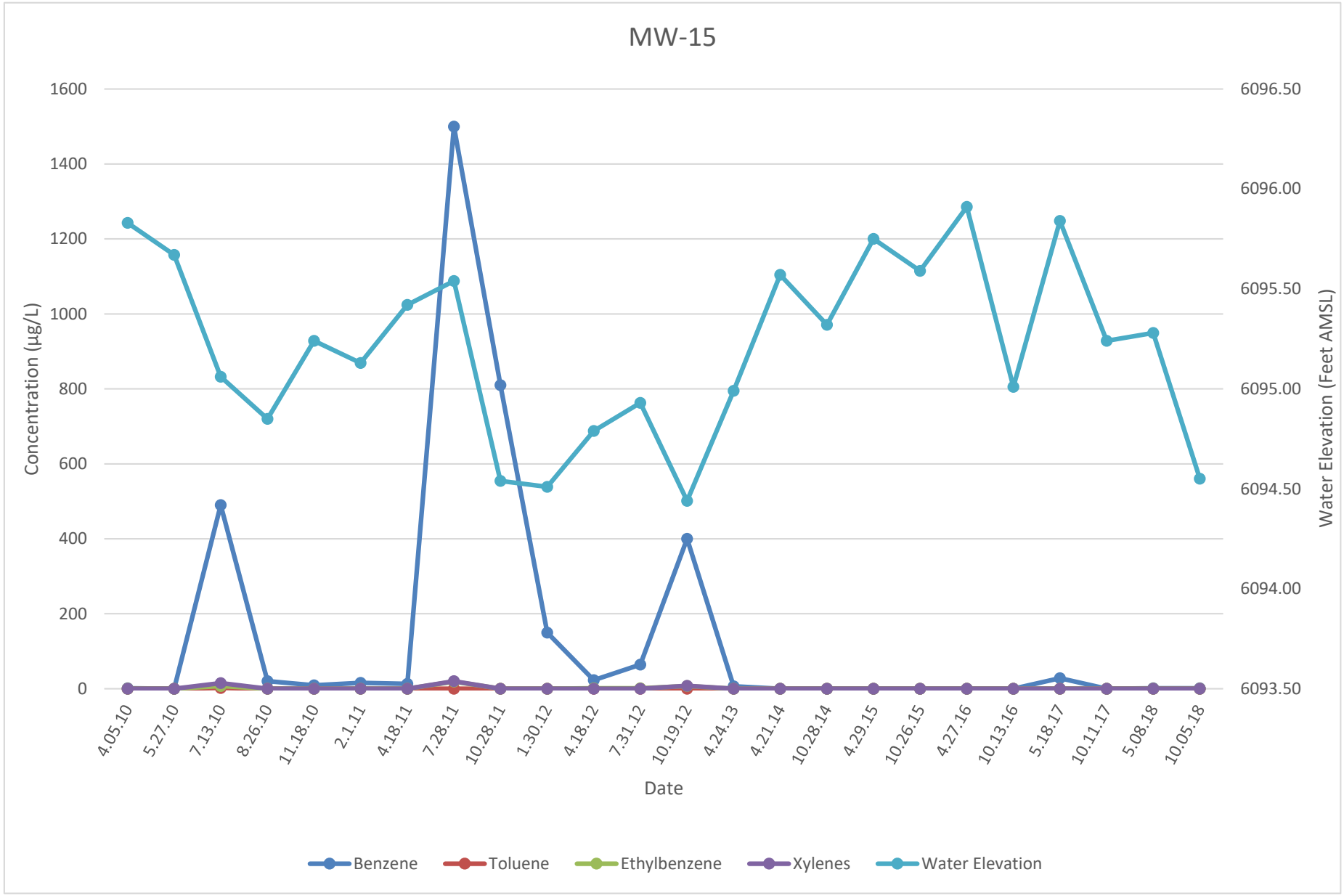
NS = Not Sampled

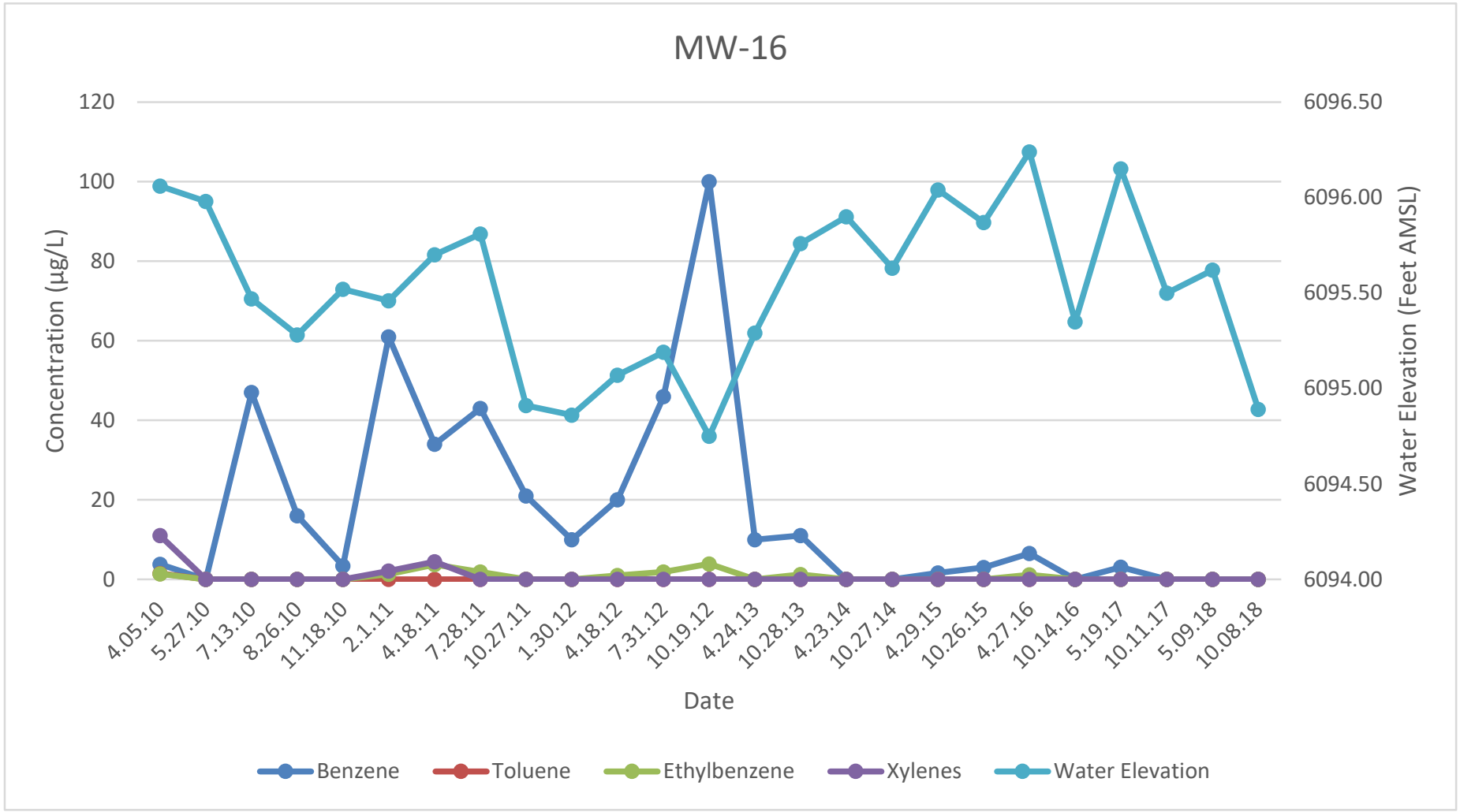
NAPL = Non-aqueous phase liquid

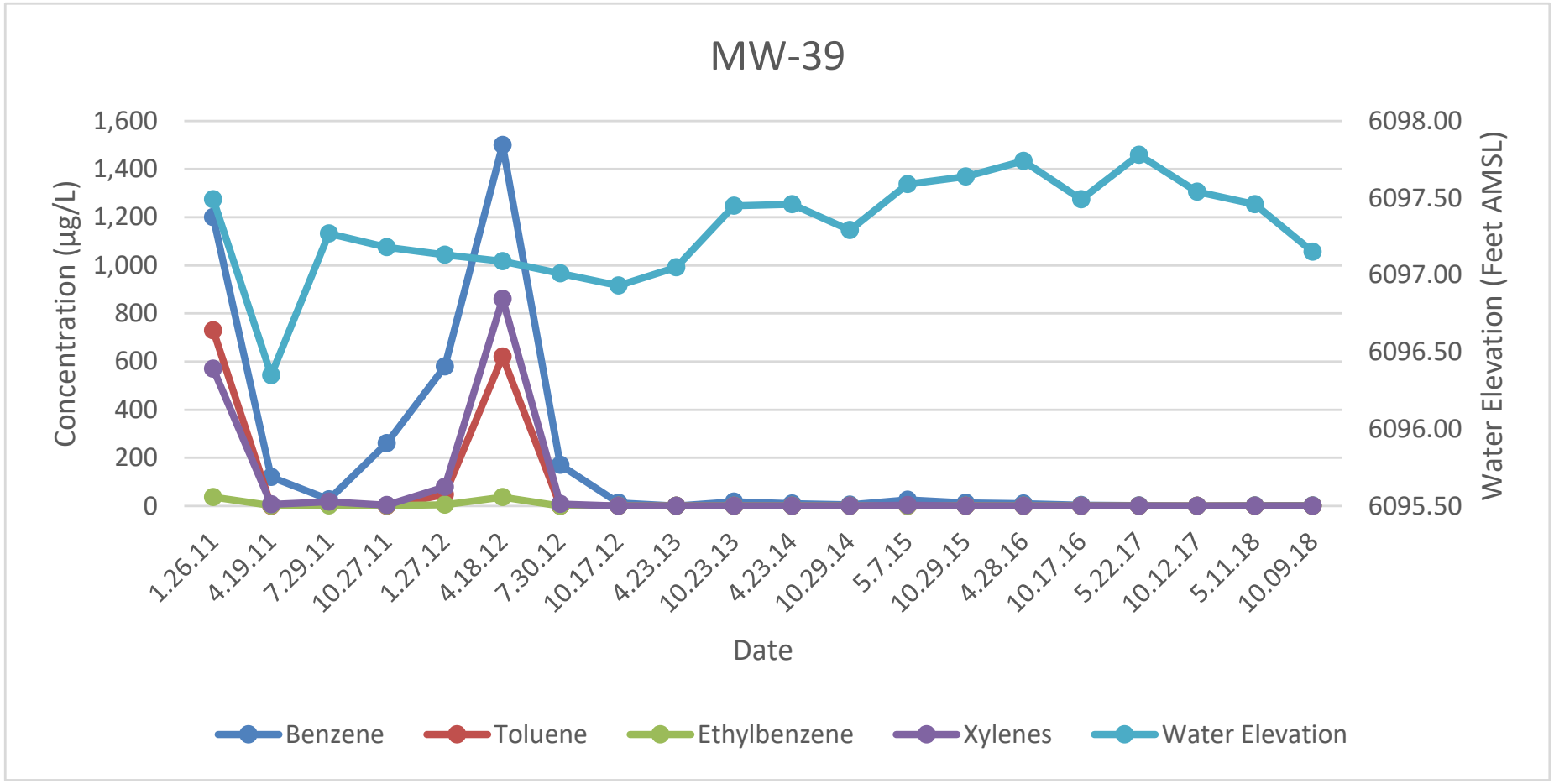
* = piezometer well was replaced with associated monitoring well

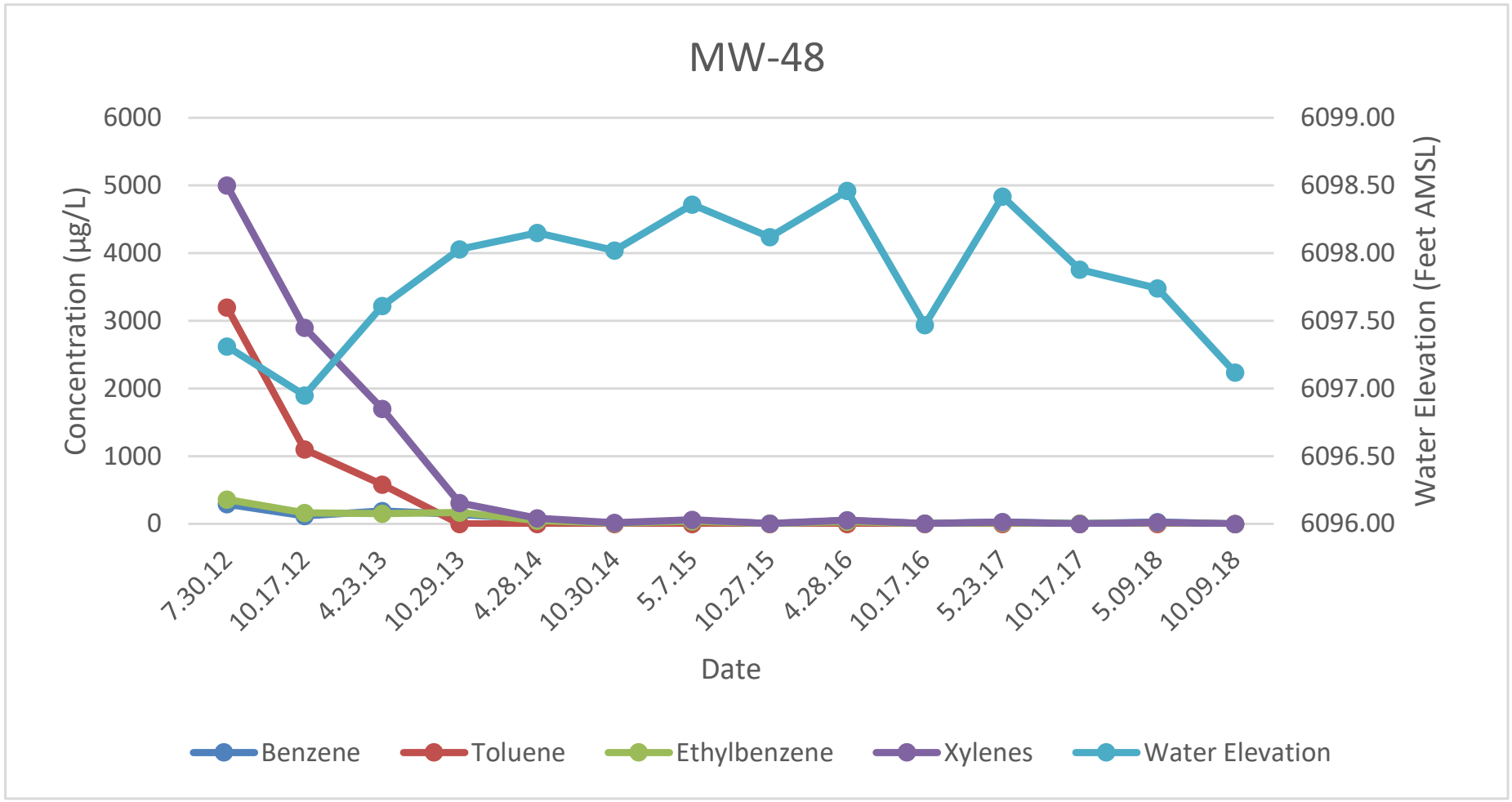
** = Monitoring well MW-40 was replaced by MW-40R

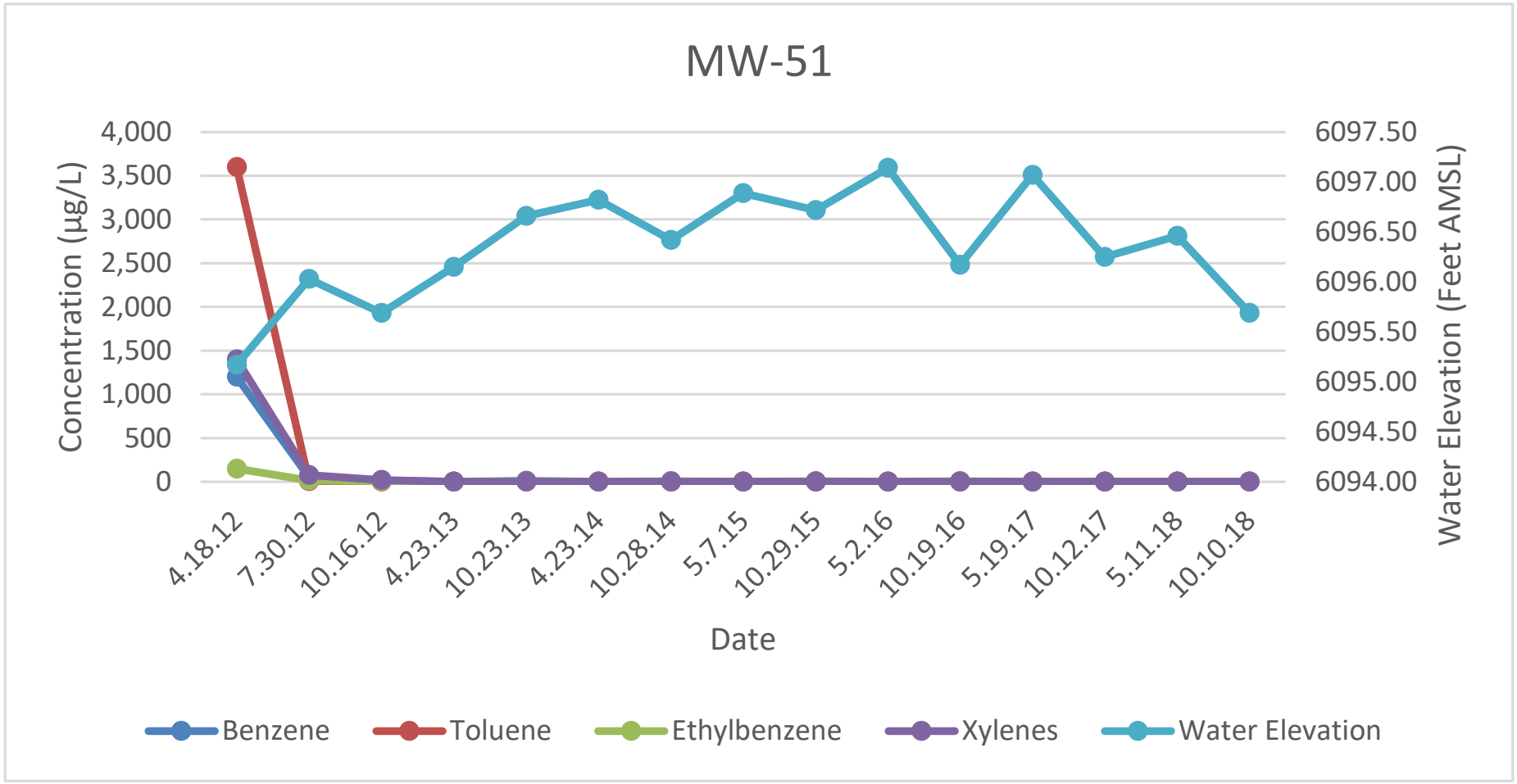

MW-7
Concentration (µg/L)
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
6096.00
6095.50
6095.00
6094.50
6094.00
6093.50
Water Elevation (feet AMSL)
8.10.09
11.24.09
2.25.10
4.05.10
5.27.10
7.13.10
8.26.10
11.18.10
2.1.11
4.19.11
5.19.11
7.28.11
10.28.11
1.31.12
4.19.12
7.31.12
10.19.12
4.24.13
10.25.13
4.22.14
10.29.14
5.6.15
10.28.15
4.27.16
10.14.16
5.18.17
10.12.17
5.08.18
10.05.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation


MW-15
Concentration (µg/L)
Water Elevation (Feet AMSL)
1600
1400
1200
1000
800
600
400
200
0
6096.50
6096.00
6095.50
6095.00
6094.50
6094.00
6093.50
4.05.10
5.27.10
7.13.10
8.26.10
11.18.10
2.1.11
4.18.11
7.28.11
10.28.11
1.30.12
4.18.12
7.31.12
10.19.12
4.24.13
4.21.14
10.28.14
4.29.15
10.26.15
4.27.16
10.13.16
5.18.17
10.11.17
5.08.18
10.05.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation


MW-16
Concentration (µg/L)
Water Elevation (Feet AMSL)
120
100
80
60
40
20
0
6096.50
6096.00
6095.50
6095.00
6094.50
6094.00
4.05.10
5.27.10
7.13.10
8.26.10
11.18.10
2.1.11
4.18.11
7.28.11
10.27.11
1.30.12
4.18.12
7.31.12
10.19.12
4.24.13
10.28.13
4.23.14
10.27.14
4.29.15
10.26.15
4.27.16
10.14.16
5.19.17
10.11.17
5.09.18
10.08.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation


MW-39
Concentration (µg/L)
1,600
1,400
1,200
1,000
800
600
400
200
0
6098.00
6097.50
6097.00
6096.50
6096.00
6095.50
Water Elevation (Feet AMSL)
1.26.11
4.19.11
7.29.11
10.27.11
1.27.12
4.18.12
7.30.12
10.17.12
4.23.13
10.23.13
4.23.14
10.29.14
5.7.15
10.29.15
4.28.16
10.17.16
5.22.17
10.12.17
5.11.18
10.09.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation


MW-48
6000
5000
4000
3000
2000
1000
0
Concentration (µg/L)
6099.00
6098.50
6098.00
6097.50
6097.00
6096.50
6096.00
Water Elevation (Feet AMSL)
7.30.12
10.17.12
4.23.13
10.29.13
4.28.14
10.30.14
5.7.15
10.27.15
4.28.16
10.17.16
5.23.17
10.17.17
5.09.18
10.09.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation


MW-51
Concentration (µg/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Water Elevation (Feet AMSL)
6097.50
6097.00
6096.50
6096.00
6095.50
6095.00
6094.50
6094.00
4.18.12
7.30.12
10.16.12
4.23.13
10.23.13
4.23.14
10.28.14
5.7.15
10.29.15
5.2.16
10.19.16
5.19.17
10.12.17
5.11.18
10.10.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation

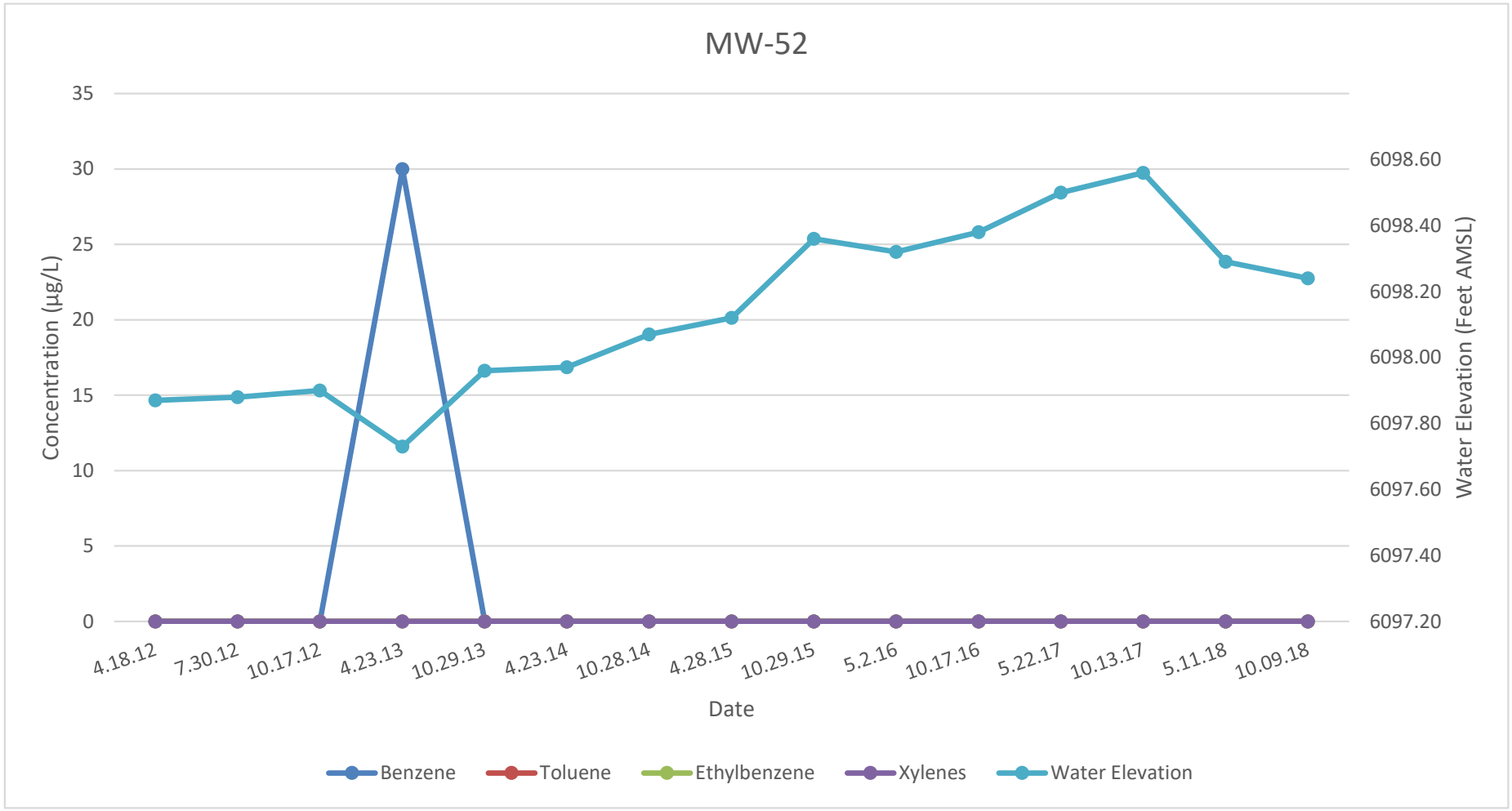

MW-52
Concentration (µg/L)
35
30
25
20
15
10
5
0
6098.60
6098.40
6098.20
6098.00
6097.80
6097.60
6097.40
6097.20
Water Elevation (Feet AMSL)
4.18.12
7.30.12
10.17.12
4.23.13
10.29.13
4.23.14
10.28.14
4.28.15
10.29.15
5.2.16
10.17.16
5.22.17
10.13.17
5.11.18
10.09.18
Date
Benzene
Toluene
Ethylbenzene
Xylenes
Water Elevation

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-3R	4.5.10	6117.48	None Observed	21.83	0.0	6095.65
	5.27.10		None Observed	21.82	0.0	6095.66
	6.25.10		None Observed	22.22	0.0	6095.26
	7.13.10		None Observed	22.47	0.0	6095.01
	8.26.10		None Observed	22.24	0.0	6095.24
	11.18.10		None Observed	22.32	0.0	6095.16
	1.25.11		None Observed	22.13	0.0	6095.35
	4.22.11		None Observed	21.99	0.0	6095.49
	7.27.11		None Observed	22.81	0.0	6094.67
	10.26.11		None Observed	22.91	0.0	6094.57
	1.26.12		None Observed	22.74	0.0	6094.74
	4.19.12		None Observed	22.61	0.0	6094.87
	7.31.12		None Observed	22.66	0.0	6094.82
	10.18.12		None Observed	23.04	0.0	6094.44
	4.24.13		None Observed	22.50	0.0	6094.98
	10.23.13		None Observed	21.12	0.0	6096.36
	4.21.14		None Observed	21.97	0.0	6095.51
	10.27.14		None Observed	22.20	0.0	6095.28
	4.28.15		None Observed	21.83	0.0	6095.65
	10.20.15		None Observed	21.96	0.0	6095.52
	4.08.16		None Observed	21.60	0.0	6095.88
	10.07.16		None Observed	22.44	0.0	6095.04
	5.17.17		None Observed	21.70	0.0	6095.78
	10.10.17		None Observed	22.32	0.0	6095.16
	5.04.18		None Observed	22.15	0.0	6095.33
	10.04.18		None Observed	22.89	0.0	6094.59
MW-6	8.10.09	6115.47	None Observed	20.28	0.0	6095.19
	11.24.09		None Observed	20.17	0.0	6095.30
	2.25.10		None Observed	19.54	0.0	6095.93
	4.5.10		None Observed	19.11	0.0	6096.36
	5.27.10		None Observed	19.28	0.0	6096.19
	6.25.10		None Observed	19.87	0.0	6095.60
	7.13.10		None Observed	20.09	0.0	6095.38
	8.26.10		None Observed	19.68	0.0	6095.79
	11.18.10		None Observed	19.72	0.0	6095.75
	1.25.11		None Observed	19.51	0.0	6095.96
	4.22.11		None Observed	19.42	0.0	6096.05
	7.27.11		None Observed	20.40	0.0	6095.07
	10.26.11		None Observed	20.43	0.0	6095.04
	1.26.12		None Observed	20.15	0.0	6095.32
	4.19.12		None Observed	Not Gauged	0.0	Not Gauged
	7.31.12		None Observed	19.93	0.0	6095.54
	10.18.12		None Observed	20.47	0.0	6095.00
	4.24.13		None Observed	19.89	0.0	6095.58
	10.23.13		None Observed	19.42	0.0	6096.05
	4.21.14		None Observed	19.34	0.0	6096.13
	10.27.14		None Observed	19.50	0.0	6095.97
	4.28.15		None Observed	19.12	0.0	6096.35
	10.20.15		None Observed	19.32	0.0	6096.15
	4.08.16		None Observed	19.02	0.0	6096.45
	10.07.16		None Observed	19.89	0.0	6095.58
	5.17.17		None Observed	19.06	0.0	6096.41
	10.10.17		None Observed	19.64	0.0	6095.83
	5.04.18		None Observed	19.65	0.0	6095.82
	10.04.18		None Observed	20.28	0.0	6095.19

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-7	8.10.09	6116.65	None Observed	21.52	0.0	6095.13
	11.24.09		None Observed	21.73	0.0	6094.92
	2.25.10		None Observed	21.42	0.0	6095.23
	4.5.10		None Observed	20.96	0.0	6095.69
	5.27.10		None Observed	20.96	0.0	6095.69
	6.25.10		None Observed	21.32	0.0	6095.33
	7.13.10		None Observed	21.46	0.0	6095.19
	8.26.10		None Observed	21.36	0.0	6095.29
	11.18.10		None Observed	21.42	0.0	6095.23
	1.25.11		None Observed	21.24	0.0	6095.41
	4.22.11		None Observed	21.22	0.0	6095.43
	7.27.11		None Observed	21.80	0.0	6094.85
	10.26.11		None Observed	21.94	0.0	6094.71
	1.26.12		None Observed	21.82	0.0	6094.83
	4.19.12		None Observed	21.70	0.0	6094.95
	7.31.12		None Observed	21.88	0.0	6094.77
	10.18.12		None Observed	22.12	0.0	6094.53
	4.24.13		None Observed	21.65	0.0	6095.00
	10.23.13		None Observed	21.43	0.0	6095.22
	4.21.14		None Observed	21.20	0.0	6095.45
	10.27.14		None Observed	21.39	0.0	6095.26
	4.28.15		None Observed	20.99	0.0	6095.66
	10.20.15		None Observed	21.13	0.0	6095.52
	4.08.16		None Observed	20.79	0.0	6095.86
	10.07.16		None Observed	21.58	0.0	6095.07
	5.17.17		None Observed	20.82	0.0	6095.83
	10.10.17		None Observed	21.47	0.0	6095.18
	5.04.18		None Observed	21.35	0.0	6095.30
	10.04.18		None Observed	22.05	0.0	6094.60
MW-8	8.10.09	6118.28	None Observed	23.17	0.0	6095.11
	11.24.09		None Observed	23.43	0.0	6094.85
	2.25.10		None Observed	23.25	0.0	6095.03
	4.5.10		None Observed	22.97	0.0	6095.31
	5.27.10		None Observed	22.85	0.0	6095.43
	6.25.10		None Observed	23.01	0.0	6095.27
	7.13.10		None Observed	23.21	0.0	6095.07
	8.26.10		None Observed	23.23	0.0	6095.05
	11.18.10		None Observed	23.30	0.0	6094.98
	1.25.11		None Observed	23.10	0.0	6095.18
	4.22.11		None Observed	22.94	0.0	6095.34
	7.27.11		None Observed	23.56	0.0	6094.72
	10.26.11		None Observed	23.75	0.0	6094.53
	1.26.12		None Observed	23.64	0.0	6094.64
	4.19.12		None Observed	23.54	0.0	6094.74
	7.31.12		None Observed	23.19	0.0	6095.09
	10.18.12		None Observed	23.96	0.0	6094.32
	4.24.13		None Observed	23.54	0.0	6094.74
	10.23.13		None Observed	23.38	0.0	6094.90
	4.21.14		None Observed	22.91	0.0	6095.37
	10.27.14		None Observed	23.33	0.0	6094.95
	4.28.15		None Observed	22.86	0.0	6095.42
	10.20.15		None Observed	23.10	0.0	6095.18
	4.08.16		None Observed	22.65	0.0	6095.63
	10.07.16		None Observed	23.36	0.0	6094.92
	5.17.17		None Observed	22.73	0.0	6095.55
	10.10.17		None Observed	23.46	0.0	6094.82
	5.04.18		None Observed	23.12	0.0	6095.16
	10.04.18		None Observed	23.90	0.0	6094.38

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-9	8.10.09	6117.83	None Observed	21.95	0.0	6095.88
	11.24.09		None Observed	21.98	0.0	6095.85
	2.25.10		None Observed	21.51	0.0	6096.32
	4.5.10		None Observed	21.00	0.0	6096.83
	5.27.10		None Observed	21.10	0.0	6096.73
	6.25.10		None Observed	21.56	0.0	6096.27
	7.13.10		None Observed	21.77	0.0	6096.06
	8.26.10		None Observed	21.58	0.0	6096.25
	11.18.10		None Observed	21.61	0.0	6096.22
	1.25.11		None Observed	21.43	0.0	6096.40
	4.22.11		None Observed	21.30	0.0	6096.53
	7.27.11		None Observed	22.15	0.0	6095.68
	10.26.11		None Observed	22.25	0.0	6095.58
	1.26.12		None Observed	22.04	0.0	6095.79
	4.19.12		None Observed	21.88	0.0	6095.95
	7.31.12		None Observed	21.98	0.0	6095.85
	10.18.12		None Observed	22.37	0.0	6095.46
	4.24.13		None Observed	21.79	0.0	6096.04
	10.23.13		None Observed	21.39	0.0	6096.44
	4.21.14		None Observed	21.20	0.0	6096.63
	10.27.14		None Observed	21.48	0.0	6096.35
	4.28.15		None Observed	21.06	0.0	6096.77
	10.20.15		None Observed	21.27	0.0	6096.56
	4.08.16		None Observed	20.85	0.0	6096.98
	10.07.16		None Observed	21.79	0.0	6096.04
	5.17.17		None Observed	22.90	0.0	6094.93
	10.10.17		None Observed	21.73	0.0	6096.10
	5.04.18		None Observed	21.53	0.0	6096.30
	10.04.18		None Observed	22.26	0.0	6095.57
MW-11	4.5.10	6116.65	None Observed	20.57	0.0	6096.08
	5.27.10		None Observed	20.75	0.0	6095.90
	6.25.10		None Observed	21.33	0.0	6095.32
	7.13.10		None Observed	21.54	0.0	6095.11
	8.26.10		None Observed	21.17	0.0	6095.48
	11.18.10		None Observed	21.16	0.0	6095.49
	1.25.11		None Observed	21.02	0.0	6095.63
	4.22.11		None Observed	20.91	0.0	6095.74
	7.27.11		None Observed	21.89	0.0	6094.76
	10.26.11		None Observed	21.94	0.0	6094.71
	1.26.12		None Observed	21.64	0.0	6095.01
	4.19.12		None Observed	21.49	0.0	6095.16
	7.31.12		None Observed	21.49	0.0	6095.16
	10.18.12		None Observed	21.98	0.0	6094.67
	4.24.13		None Observed	21.40	0.0	6095.25
	9.6.13		Monitoring well was removed during remediation September 2013			

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-12	4.5.10	6111.24	None Observed	14.88	0.0	6096.36
	5.27.10		None Observed	15.11	0.0	6096.13
	6.25.10		None Observed	15.67	0.0	6095.57
	7.13.10		None Observed	15.91	0.0	6095.33
	8.26.10		None Observed	15.55	0.0	6095.69
	11.18.10		None Observed	16.58	0.0	6094.66
	1.25.11		None Observed	15.73	0.0	6095.51
	4.22.11		None Observed	15.30	0.0	6095.94
	7.27.11		None Observed	16.10	0.0	6095.14
	10.26.11		None Observed	16.21	0.0	6095.03
	1.26.12		None Observed	15.99	0.0	6095.25
	4.19.12		None Observed	15.83	0.0	6095.41
	7.31.12		None Observed	15.83	0.0	6095.41
	10.18.12		16.30	16.31	0.01	6094.94
	4.24.13		None Observed	15.68	0.00	6095.56
	9.6.13		Monitoring well was removed during remediation September 2013			
MW-13	4.5.10	6115.46	None Observed	19.26	0.0	6096.20
	5.27.10		None Observed	19.47	0.0	6095.99
	6.25.10		None Observed	20.07	0.0	6095.39
	7.13.10		None Observed	20.28	0.0	6095.18
	8.26.10		None Observed	19.86	0.0	6095.60
	11.18.10		None Observed	19.91	0.0	6095.55
	1.25.11		None Observed	19.71	0.0	6095.75
	4.22.11		None Observed	19.65	0.0	6095.81
	7.27.11		None Observed	20.59	0.0	6094.87
	10.26.11		None Observed	20.62	0.0	6094.84
	1.26.12		None Observed	20.34	0.0	6095.12
	4.19.12		None Observed	20.19	0.0	6095.27
	7.31.12		None Observed	20.15	0.0	6095.31
	10.18.12		None Observed	20.67	0.0	6094.79
	4.24.13		None Observed	20.10	0.0	6095.36
	10.23.13		None Observed	19.64	0.0	6095.82
	4.21.14		None Observed	19.63	0.0	6095.83
	10.27.14		None Observed	19.77	0.0	6095.69
	4.28.15		None Observed	19.37	0.0	6096.09
	10.20.15		None Observed	19.54	0.0	6095.92
	4.08.16		None Observed	19.24	0.0	6096.22
	10.07.16		None Observed	20.13	0.0	6095.33
	5.17.17		None Observed	19.30	0.0	6096.16
	10.10.17		None Observed	19.86	0.0	6095.60
	5.04.18		None Observed	19.88	0.0	6095.58
	10.04.18		None Observed	20.52	0.0	6094.94

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-14	4.5.10	6115.99	None Observed	20.09	0.0	6095.90
	5.27.10		None Observed	20.28	0.0	6095.71
	6.25.10		None Observed	20.94	0.0	6095.05
	7.13.10		None Observed	21.19	0.0	6094.80
	8.26.10		None Observed	20.70	0.0	6095.29
	11.18.10		None Observed	20.73	0.0	6095.26
	1.25.11		None Observed	20.52	0.0	6095.47
	4.22.11		None Observed	20.45	0.0	6095.54
	7.27.11		None Observed	21.47	0.0	6094.52
	10.26.11		None Observed	21.48	0.0	6094.51
	1.26.12		None Observed	21.15	0.0	6094.84
	4.19.12		None Observed	21.00	0.0	6094.99
	7.31.12		None Observed	21.00	0.0	6094.99
	10.18.12		None Observed	21.50	0.0	6094.49
	4.24.13		None Observed	20.91	0.0	6095.08
	10.23.13		None Observed	20.43	0.0	6095.56
	4.21.14		None Observed	21.38	0.0	6094.61
	10.27.14		None Observed	20.58	0.0	6095.41
	4.28.15		None Observed	20.16	0.0	6095.83
	10.20.15		None Observed	20.36	0.0	6095.63
	4.08.16		None Observed	20.05	0.0	6095.94
	10.07.16		None Observed	20.86	0.0	6095.13
	5.17.17		None Observed	20.10	0.0	6095.89
	10.10.17		None Observed	20.70	0.0	6095.29
	5.04.18**		None Observed	Errant Gauge	0.0	Errant Gauge
	10.04.18		None Observed	21.38	0.0	6094.61
MW-15	4.5.10	6116.49	None Observed	20.66	0.0	6095.83
	5.27.10		None Observed	20.82	0.0	6095.67
	6.25.10		None Observed	21.43	0.0	6095.06
	7.13.10		None Observed	21.64	0.0	6094.85
	8.26.10		None Observed	21.25	0.0	6095.24
	11.18.10		None Observed	21.36	0.0	6095.13
	1.25.11		None Observed	21.07	0.0	6095.42
	4.22.11		None Observed	20.95	0.0	6095.54
	7.27.11		None Observed	21.95	0.0	6094.54
	10.26.11		None Observed	21.98	0.0	6094.51
	1.26.12		None Observed	21.70	0.0	6094.79
	4.19.12		None Observed	21.56	0.0	6094.93
	7.31.12		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.05	0.0	6094.44
	4.24.13		None Observed	21.50	0.0	6094.99
	4.21.14		None Observed	20.92	0.0	6095.57
	10.27.14		None Observed	21.17	0.0	6095.32
	4.28.15		None Observed	20.74	0.0	6095.75
	10.20.15		None Observed	20.90	0.0	6095.59
	4.08.16		None Observed	20.58	0.0	6095.91
	10.07.16		None Observed	21.48	0.0	6095.01
	5.17.17		None Observed	20.65	0.0	6095.84
	10.10.17		None Observed	21.25	0.0	6095.24
	5.04.18		None Observed	21.21	0.0	6095.28
	10.04.18		None Observed	21.94	0.0	6094.55

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-16	4.5.10	6117.57	None Observed	21.51	0.0	6096.06
	5.27.10		None Observed	21.59	0.0	6095.98
	6.25.10		None Observed	22.10	0.0	6095.47
	7.13.10		None Observed	22.29	0.0	6095.28
	8.26.10		None Observed	22.05	0.0	6095.52
	11.18.10		None Observed	22.11	0.0	6095.46
	1.25.11		None Observed	21.87	0.0	6095.70
	4.22.11		None Observed	21.76	0.0	6095.81
	7.27.11		None Observed	22.66	0.0	6094.91
	10.26.11		None Observed	22.71	0.0	6094.86
	1.26.12		None Observed	22.50	0.0	6095.07
	4.19.12		None Observed	22.38	0.0	6095.19
	7.31.12**		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.82	0.0	6094.75
	4.24.13		None Observed	22.28	0.0	6095.29
	10.23.13		None Observed	21.81	0.0	6095.76
	4.21.14		None Observed	21.67	0.0	6095.90
	10.27.14		None Observed	21.94	0.0	6095.63
	4.28.15		None Observed	21.53	0.0	6096.04
	10.20.15		None Observed	21.70	0.0	6095.87
	4.08.16		None Observed	21.33	0.0	6096.24
	10.07.16		None Observed	22.22	0.0	6095.35
	5.17.17		None Observed	21.42	0.0	6096.15
	10.10.17		None Observed	22.07	0.0	6095.50
	5.04.18		None Observed	21.95	0.0	6095.62
	10.04.18		None Observed	22.68	0.0	6094.89
MW-32	1.25.11	6110.22	None Observed	12.67	0.0	6097.55
	4.22.11		None Observed	12.49	0.0	6097.73
	7.27.11		None Observed	13.47	0.0	6096.75
	10.26.11		None Observed	13.56	0.0	6096.66
	1.26.12		None Observed	13.23	0.0	6096.99
	4.18.12		None Observed	13.05	0.0	6097.17
	7.30.12		None Observed	14.10	0.0	6096.12
	10.18.12		None Observed	13.59	0.0	6096.63
	4.23.13		None Observed	13.00	0.0	6097.22
	10.23.13		None Observed	12.64	0.0	6097.58
	4.21.14		None Observed	12.47	0.0	6097.75
	10.27.14		None Observed	12.79	0.0	6097.43
	4.28.15		None Observed	12.19	0.0	6098.03
	10.20.15		None Observed	12.54	0.0	6097.68
	4.08.16		None Observed	12.15	0.0	6098.07
	10.07.16		None Observed	12.10	0.0	6098.12
	5.17.17		None Observed	12.18	0.0	6098.04
	10.10.17[3]		Not Gauged			
	5.04.18		None Observed	12.86	0.0	6097.36
	10.04.18		None Observed	13.53	0.0	6096.69

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Largo Compressor Station
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Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-33	1.25.11*	6114.02	16.08	16.44	0.36	6097.83
	4.22.11		16.59	16.60	0.01	6097.43
	7.27.11		16.07	16.72	0.65	6097.75
	10.26.11		15.55	16.15	0.60	6098.28
	1.26.12		15.83	15.84	0.01	6098.19
	4.18.12		Not Gauged			
	8.31.12		15.4	17.29	1.89	6098.03
	10.18.12		14.39	17.51	3.12	6098.66
	4.23.13		12.31	12.35	0.04	6101.70
	10.23.13		10.92	14.08	3.16	6102.12
	4.21.14		10.47	10.50	0.03	6103.54
	10.27.14		11.82	12.47	0.65	6102.00
	4.28.15		10.44	11.19	0.75	6103.35
	10.20.15		10.45	11.31	0.86	6103.30
	4.08.16		Monitoring well was removed during remediation October 2015			
MW-34	1.25.11	6115.3	None Observed	17.38	0.0	6097.92
	4.22.11		None Observed	17.20	0.0	6098.10
	7.27.11		None Observed	18.23	0.0	6097.07
	10.26.11		None Observed	18.32	0.0	6096.98
	1.26.12		None Observed	17.98	0.0	6097.32
	4.18.12		None Observed	17.78	0.0	6097.52
	7.30.12		None Observed	17.80	0.0	6097.50
	10.18.12		None Observed	18.32	0.0	6096.98
	4.23.13		None Observed	17.70	0.0	6097.60
	10.23.13		None Observed	16.32	0.0	6098.98
	4.21.14		None Observed	17.12	0.0	6098.18
	10.27.14		None Observed	17.33	0.0	6097.97
	4.28.15		None Observed	16.88	0.0	6098.42
	10.20.15		None Observed	16.88	0.0	6098.42
	4.08.16		None Observed	16.81	0.0	6098.49
	10.07.16		None Observed	17.78	0.0	6097.52
	5.17.17		None Observed	16.83	0.0	6098.47
	10.10.17		None Observed	17.60	0.0	6097.70
	5.04.18		None Observed	17.52	0.0	6097.78
	10.04.18		None Observed	18.16	0.0	6097.14
MW-35	1.25.11*	6112.22	14.5	14.75	0.25	6097.64
	4.22.11		14.22	14.80	0.58	6097.82
	7.27.11		15.11	16.36	1.25	6096.72
	10.26.11		15.14	16.64	1.50	6096.62
	1.26.12		14.72	14.73	0.01	6097.50
	4.18.12		Not Gauged			
	8.31.12		14.43	17.49	3.06	6096.84
	10.18.12		14.65	17.84	3.19	6096.58
	4.23.13		10.98	13.05	2.07	6100.60
	10.23.13		9.26	12.58	3.72	6102.21
	4.21.14		10.84	11.35	0.51	6101.22
	10.27.14		10.42	10.98	0.56	6101.63
	4.28.15		9.95	10.46	0.51	6102.11
	10.20.15		10.64	11.27	0.63	6101.38
	4.08.16		Monitoring well was removed during remediation October 2015			

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Largo Compressor Station
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Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-36	1.25.11	6111.48	None Observed	13.80	0.0	6097.68
	4.22.11		None Observed	13.65	0.0	6097.83
	7.27.11		None Observed	14.69	0.0	6096.79
	10.26.11		None Observed	14.45	0.0	6097.03
	1.26.12		None Observed	14.41	0.0	6097.07
	4.18.12		None Observed	14.18	0.0	6097.30
	7.30.12		None Observed	14.10	0.0	6097.38
	10.18.12		None Observed	14.76	0.0	6096.72
	4.23.13		None Observed	14.11	0.0	6097.37
	10.23.13		None Observed	13.75	0.0	6097.73
	4.21.14		None Observed	13.58	0.0	6097.90
	10.27.14		None Observed	13.77	0.0	6097.71
	4.28.15		None Observed	13.39	0.0	6098.09
	10.20.15		None Observed	13.65	0.0	6097.83
	4.08.16		None Observed	13.27	0.0	6098.21
	10.07.16		None Observed	14.23	0.0	6097.25
	5.17.17		None Observed	13.30	0.0	6098.18
	10.10.17[3]		Not Gauged			
	5.04.18		**Monitoring well was removed during October 2017 excavation**			
MW-37	1.25.11	6110.73	Sheen	12.91	Sheen	6097.82
	4.22.11		None Observed	12.78	0.0	6097.95
	7.27.11		13.81	13.84	0.03	6096.91
	10.26.11		13.88	13.92	0.04	6096.84
	1.26.12		13.54	13.54	0.01	6097.20
	4.18.12		Not Gauged			
	7.30.12		Sheen	13.15	Sheen	6097.58
	10.18.12		13.89	13.90	0.01	6096.84
	4.23.13		None Observed	13.23	0.0	6097.50
	10.23.13		None Observed	12.84	0.0	6097.89
	4.21.14		None Observed	12.72	0.0	6098.01
	10.27.14		None Observed	12.85	0.0	6097.88
	4.28.15		None Observed	12.52	0.0	6098.21
	10.20.15		None Observed	12.78	0.0	6097.95
	4.08.16		None Observed	12.41	0.0	6098.32
	10.07.16		None Observed	13.38	0.0	6097.35
	5.17.17		None Observed	12.44	0.0	6098.29
	10.10.17		None Observed	13.04	0.0	6097.69
	5.4.18		**Monitoring well was removed during October 2017 excavation**			

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Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-38	1.25.11	6110.43	None Observed	12.06	0.0	6098.37
	4.22.11		None Observed	11.87	0.0	6098.56
	7.27.11		None Observed	13.01	0.0	6097.42
	10.26.11		None Observed	13.10	0.0	6097.33
	1.26.12		None Observed	12.68	0.0	6097.75
	4.18.12		None Observed	12.11	0.0	6098.32
	7.30.12		None Observed	12.24	0.0	6098.19
	10.18.12		None Observed	13.01	0.0	6097.42
	4.23.13		None Observed	12.34	0.0	6098.09
	10.23.13		None Observed	11.92	0.0	6098.51
	4.22.13		None Observed	11.80	0.0	6098.63
	4.21.14		None Observed	11.80	0.0	6098.63
	10.27.14		None Observed	11.91	0.0	6098.52
	4.28.15		None Observed	11.55	0.0	6098.88
	10.20.15		None Observed	11.85	0.0	6098.58
	4.08.16		None Observed	11.52	0.0	6098.91
	10.07.16		None Observed	12.79	0.0	6097.64
	5.17.17		None Observed	11.53	0.0	6098.90
	10.10.17		None Observed	12.07	0.0	6098.36
	5.04.18		None Observed	12.21	0.0	6098.22
	10.04.18		None Observed	12.83	0.0	6097.60
MW-39	1.25.11	6113.70	None Observed	16.21	0.0	6097.49
	4.22.11		None Observed	17.35	0.0	6096.35
	7.27.11		None Observed	16.43	0.0	6097.27
	10.26.11		None Observed	16.52	0.0	6097.18
	1.26.12		None Observed	16.57	0.0	6097.13
	4.18.12		None Observed	16.61	0.0	6097.09
	7.30.12		None Observed	16.69	0.0	6097.01
	10.18.12		None Observed	16.77	0.0	6096.93
	4.23.13		None Observed	16.65	0.0	6097.05
	10.23.13		None Observed	16.25	0.0	6097.45
	4.21.14		None Observed	16.24	0.0	6097.46
	10.29.14		None Observed	16.41	0.0	6097.29
	4.28.15		None Observed	16.11	0.0	6097.59
	10.20.15		None Observed	16.06	0.0	6097.64
	4.08.16		None Observed	15.96	0.0	6097.74
	10.07.16		None Observed	16.21	0.0	6097.49
	5.17.17		None Observed	15.92	0.0	6097.78
	10.10.17		None Observed	16.16	0.0	6097.54
	5.04.18		None Observed	16.24	0.0	6097.46
	10.04.18		None Observed	16.55	0.0	6097.15

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GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-40[2]	1.25.11	6115.69	None Observed	19.16	0.0	6096.53
	4.22.11		Dry	Dry	Dry	Dry
	7.27.11		Dry	Dry	Dry	Dry
	10.26.11		Dry	Dry	Dry	Dry
	1.26.12		Dry	Dry	Dry	Dry
MW-40R	4.18.12	6115.61	None Observed	19.58	0.0	6096.03
	7.30.12		None Observed	19.69	0.0	6095.92
	10.18.12		None Observed	19.96	0.0	6095.65
	4.23.13		None Observed	19.47	0.0	6096.14
	10.23.13		None Observed	19.12	0.0	6096.49
	4.21.14		None Observed	18.85	0.0	6096.76
	10.27.14		None Observed	19.17	0.0	6096.44
	4.28.15		None Observed	18.71	0.0	6096.90
	10.20.15		None Observed	18.93	0.0	6096.68
	4.08.16		None Observed	18.53	0.0	6097.08
	10.07.16		None Observed	19.45	0.0	6096.16
	5.17.17		None Observed	18.59	0.0	6097.02
	10.10.17		None Observed	19.41	0.0	6096.20
	5.04.18		None Observed	19.18	0.0	6096.43
	10.04.18		None Observed	19.96	0.0	6095.65
MW-41	1.25.11	6112.07	None Observed	14.14	0.0	6097.93
	4.22.11		None Observed	14.18	0.0	6097.89
	7.27.11		None Observed	14.08	0.0	6097.99
	10.26.11		None Observed	14.97	0.0	6097.10
	1.26.12		None Observed	14.20	0.0	6097.87
	4.18.12		None Observed	14.27	0.0	6097.80
	7.30.12		None Observed	14.21	0.0	6097.86
	10.18.12		None Observed	14.18	0.0	6097.89
	4.23.13		None Observed	14.39	0.0	6097.68
	10.23.13		None Observed	14.23	0.0	6097.84
	4.21.14		None Observed	14.26	0.0	6097.81
	10.27.14		None Observed	14.06	0.0	6098.01
	4.28.15		None Observed	14.09	0.0	6097.98
	10.20.15		None Observed	13.86	0.0	6098.21
	4.08.16		None Observed	13.88	0.0	6098.19
	10.07.16		None Observed	13.72	0.0	6098.35
	5.17.17		None Observed	13.62	0.0	6098.45
	10.10.17		None Observed	13.39	0.0	6098.68
	5.04.18		None Observed	13.53	0.0	6098.54
	10.04.18		None Observed	13.43	0.0	6098.64

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Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-42	1.25.11	6121.53	None Observed	24.88	0.0	6096.65
	4.22.11**		None Observed	Errant Gauge	0.0	Errant Gauge
	7.27.11		None Observed	Dry	0.0	Dry
	10.26.11		None Observed	25.16	0.0	6096.37
	1.26.12		None Observed	24.92	0.0	6096.61
	4.18.12		Not Gauged			Not Gauged
	7.30.12		Dry	Dry	Dry	Dry
	10.18.12		Dry	Dry	Dry	Dry
	4.23.13		Dry	Dry	Dry	Dry
	10.23.13		Dry	Dry	Dry	Dry
	4.21.14		None Observed	25.02	0.0	6096.51
	10.27.14		None Observed	25.35	0.0	6096.18
	4.28.15		Dry	Dry	Dry	Dry
	10.20.15		None Observed	25.19	0.0	6096.34
	4.08.16***		None Observed	24.79	0.0	6096.74
	10.07.16		Dry	Dry	Dry	Dry
	5.17.17***		None Observed	24.49	0.0	6097.04
	10.10.17***		None Observed	24.82	0.0	6096.71
	5.04.18		None Observed	24.49	0.0	6097.04
	10.04.18		None Observed	24.82	0.0	6096.71
MW-43	1.25.11	6112.92	None Observed	15.41	0.0	6097.51
	4.22.11		None Observed	15.30	0.0	6097.62
	7.27.11		None Observed	16.27	0.0	6096.65
	10.26.11		None Observed	16.35	0.0	6096.57
	1.26.12		None Observed	16.05	0.0	6096.87
	4.18.12		None Observed	15.87	0.0	6097.05
	7.30.12		None Observed	15.82	0.0	6097.10
	10.18.12		None Observed	16.35	0.0	6096.57
	4.23.13		None Observed	15.79	0.0	6097.13
	10.23.13		None Observed	15.33	0.0	6097.59
	4.21.14		None Observed	15.19	0.0	6097.73
	10.27.14		None Observed	15.42	0.0	6097.50
	4.28.15		None Observed	15.01	0.0	6097.91
	10.20.15		None Observed	15.28	0.0	6097.64
	4.08.16		None Observed	14.92	0.0	6098.00
	10.07.16		None Observed	15.84	0.0	6097.08
	5.17.17		None Observed	14.94	0.0	6097.98
	10.10.17		None Observed	15.64	0.0	6097.28
	5.04.18		None Observed	15.61	0.0	6097.31
	10.04.18		None Observed	16.25	0.0	6096.67

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GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-47	1.25.11	6114.41	None Observed	19.22	0.0	6095.19
	4.22.11		None Observed	19.02	0.0	6095.39
	7.27.11		None Observed	19.69	0.0	6094.72
	10.26.11		None Observed	19.86	0.0	6094.55
	1.26.12		None Observed	19.79	0.0	6094.62
	4.19.12		None Observed	19.67	0.0	6094.74
	7.31.12		None Observed	19.87	0.0	6094.54
	10.18.12		None Observed	20.08	0.0	6094.33
	4.24.13		None Observed	19.65	0.0	6094.76
	10.23.13		None Observed	19.38	0.0	6095.03
	4.21.14		None Observed	19.06	0.0	6095.35
	10.27.14		None Observed	19.37	0.0	6095.04
	4.28.15		None Observed	18.95	0.0	6095.46
	10.20.15		None Observed	19.15	0.0	6095.26
	4.08.16		Well damaged			
	10.07.16		Well damaged			
	5.17.17		Well damaged			
	10.10.17		Well damaged			
	5.04.18		Well damaged			
	10.04.18		Well damaged			
MW-48	4.18.12	6109.21	None Observed			Not Gauged
	7.30.12		None Observed	11.90	0.0	6097.31
	10.18.12		None Observed	12.26	0.0	6096.95
	4.23.13		None Observed	11.60	0.0	6097.61
	10.23.13		None Observed	11.18	0.0	6098.03
	4.21.14		None Observed	11.06	0.0	6098.15
	10.27.14		None Observed	11.19	0.0	6098.02
	4.28.15		None Observed	10.85	0.0	6098.36
	10.20.15		None Observed	11.09	0.0	6098.12
	4.08.16		None Observed	10.75	0.0	6098.46
	10.07.16		None Observed	11.74	0.0	6097.47
	5.17.17		None Observed	10.79	0.0	6098.42
	10.10.17		None Observed	11.33	0.0	6097.88
	5.04.18		None Observed	11.47	0.0	6097.74
	10.04.18		None Observed	12.09	0.0	6097.12
MW-49	4.18.12	6109.54	None Observed	12.38	0.0	6097.16
	7.30.12		None Observed	12.22	0.0	6097.32
	10.18.12		None Observed	12.92	0.0	6096.62
	4.23.13**		None Observed	Errant Gauge	0.0	Errant Gauge
	10.23.13		None Observed	11.87	0.0	6097.67
	4.21.14		None Observed	11.77	0.0	6097.77
	10.27.14		None Observed	11.89	0.0	6097.65
	4.28.15		None Observed	11.54	0.0	6098.00
	10.20.15		None Observed	11.81	0.0	6097.73
	4.08.16		None Observed	11.45	0.0	6098.09
	10.20.16		None Observed	12.45	0.0	6097.09
	5.17.17		None Observed	11.51	0.0	6098.03
	10.10.17		None Observed	12.09	0.0	6097.45
	5.04.18		None Observed	12.18	0.0	6097.36
	10.04.18		None Observed	12.83	0.0	6096.71

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-50	4.18.12	6120.62	None Observed	24.64	0.0	6095.98
	7.30.12		None Observed	24.93	0.0	6095.69
	10.18.12		None Observed	25.11	0.0	6095.51
	4.23.13		None Observed	24.57	0.0	6096.05
	10.23.13		None Observed	24.21	0.0	6096.41
	4.21.14		None Observed	23.91	0.0	6096.71
	10.27.14		None Observed	24.36	0.0	6096.26
	4.28.15		None Observed	23.86	0.0	6096.76
	10.20.15		None Observed	24.04	0.0	6096.58
	4.08.16		None Observed	23.58	0.0	6097.04
	10.07.16		None Observed	24.52	0.0	6096.10
	5.17.17		None Observed	23.68	0.0	6096.94
	10.10.17		None Observed	24.54	0.0	6096.08
	5.04.18		None Observed	24.24	0.0	6096.38
	10.04.18		None Observed	25.09	0.0	6095.53
MW-51	4.18.12	6113.50	None Observed	18.33	0.0	6095.17
	7.30.12		None Observed	17.47	0.0	6096.03
	10.18.12		None Observed	17.81	0.0	6095.69
	04.23.13		None Observed	17.35	0.0	6096.15
	10.23.13		None Observed	16.84	0.0	6096.66
	4.21.14		None Observed	16.68	0.0	6096.82
	10.27.14		None Observed	17.08	0.0	6096.42
	4.28.15		None Observed	16.61	0.0	6096.89
	10.20.15		None Observed	16.78	0.0	6096.72
	4.08.16		None Observed	16.36	0.0	6097.14
	10.07.16		None Observed	17.33	0.0	6096.17
	5.17.17		None Observed	16.43	0.0	6097.07
	10.10.17		None Observed	17.25	0.0	6096.25
	5.04.18		None Observed	17.04	0.0	6096.46
	10.04.18		None Observed	17.81	0.0	6095.69
MW-52	4.18.12	6118.98	None Observed	21.11	0.0	6097.87
	7.30.12		None Observed	21.10	0.0	6097.88
	10.18.12		None Observed	21.08	0.0	6097.90
	4.23.13		None Observed	21.25	0.0	6097.73
	10.23.13		None Observed	21.02	0.0	6097.96
	4.21.14		None Observed	21.01	0.0	6097.97
	10.27.14		None Observed	20.91	0.0	6098.07
	4.28.15		None Observed	20.86	0.0	6098.12
	10.20.15		None Observed	20.62	0.0	6098.36
	4.08.16		None Observed	20.66	0.0	6098.32
	10.07.16		None Observed	20.6	0.0	6098.38
	5.17.17		None Observed	20.48	0.0	6098.50
	10.10.17		None Observed	20.42	0.0	6098.56
	5.04.18		None Observed	20.69	0.0	6098.29
	10.04.18		None Observed	20.74	0.0	6098.24

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-53	5.3.13	6109.41	None Observed	12.16	0.0	6097.25
	10.23.13		None Observed	11.72	0.0	6097.69
	4.21.14		None Observed	11.58	0.0	6097.83
	10.27.14		None Observed	11.73	0.0	6097.68
	4.28.15		None Observed	11.40	0.0	6098.01
	10.20.15		None Observed	11.66	0.0	6097.75
	4.08.16		None Observed	11.26	0.0	6098.15
	10.07.16		None Observed	12.27	0.0	6097.14
	5.17.17		None Observed	11.33	0.0	6098.08
	10.10.17		None Observed	12.00	0.0	6097.41
	5.04.18		None Observed	12.09	0.0	6097.32
	10.04.18		None Observed	12.71	0.0	6096.70
MW-54	5.3.13	6107.62	None Observed	10.29	0.0	6097.33
	10.23.13		None Observed	9.82	0.0	6097.80
	4.21.14		None Observed	9.79	0.0	6097.83
	10.27.14		None Observed	9.80	0.0	6097.82
	4.28.15		None Observed	9.51	0.0	6098.11
	10.20.15		None Observed	9.70	0.0	6097.92
	4.08.16		None Observed	9.40	0.0	6098.22
	10.20.16		None Observed	10.30	0.0	6097.32
	5.17.17		None Observed	9.41	0.0	6098.21
	10.10.17		None Observed	9.97	0.0	6097.65
	5.04.18		None Observed	10.13	0.0	6097.49
	10.04.18		None Observed	10.78	0.0	6096.84
MW-55	5.3.13	6107.53	None Observed	9.82	0.0	6097.71
	10.23.13		None Observed	9.45	0.0	6098.08
	4.21.14		None Observed	9.21	0.0	6098.32
	10.27.14		None Observed	9.08	0.0	6098.45
	4.28.15		None Observed	9.01	0.0	6098.52
	10.20.15		None Observed	9.11	0.0	6098.42
	4.08.16		None Observed	9.06	0.0	6098.47
	10.07.16		None Observed	9.51	0.0	6098.02
	5.17.17		Blockage	Blockage	Blockage	Blockage
	10.10.17		Blockage	Blockage	Blockage	Blockage
	5.04.18		Blockage	Blockage	Blockage	Blockage
	10.04.18		Blockage	Blockage	Blockage	Blockage
MW-75	4.23.13	6116.28	None Observed	18.98	0.0	6097.30
	10.23.13		None Observed	18.67	0.0	6097.64
	4.21.14		None Observed	18.35	0.0	6097.93
	10.27.14		None Observed	18.64	0.0	6097.64
	4.28.15		None Observed	18.18	0.0	6098.10
	10.20.15		None Observed	18.49	0.0	6097.79
	4.08.16		None Observed	18.07	0.0	6098.21
	10.07.16		None Observed	19.03	0.0	6097.25
	5.17.17		None Observed	18.10	0.0	6098.18
	10.10.17		None Observed	18.96	0.0	6097.32
	5.04.18		None Observed	18.79	0.0	6097.49
	10.04.18		None Observed	19.48	0.0	6096.80

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-76	10.23.13	6123.36	None Observed	25.33	0.0	6098.03
	4.21.14		None Observed	24.73	0.0	6098.63
	10.27.14		None Observed	25.20	0.0	6098.16
	4.28.15		None Observed	24.54	0.0	6098.82
	10.20.15		None Observed	25.03	0.0	6098.33
	4.08.16		None Observed	24.45	0.0	6098.91
	10.07.16		None Observed	25.40	0.0	6097.96
	5.17.17		None Observed	24.51	0.0	6098.85
	10.10.17		None Observed	25.54	0.0	6097.82
	5.04.18		None Observed	25.10	0.0	6098.26
	10.04.18		None Observed	25.86	0.0	6097.50
MW-77	10.23.13	6130.97	None Observed	33.13	0.0	6097.84
	4.21.14		None Observed	32.53	0.0	6098.44
	10.27.14		None Observed	32.98	0.0	6097.99
	4.28.15		None Observed	32.37	0.0	6098.60
	10.20.15		None Observed	32.82	0.0	6098.15
	4.08.16		None Observed	32.26	0.0	6098.71
	10.07.16		None Observed	33.19	0.0	6097.78
	5.17.17		None Observed	32.32	0.0	6098.65
	10.10.17		None Observed	33.35	0.0	6097.62
	5.04.18		None Observed	32.91	0.0	6098.06
	10.04.18		None Observed	33.65	0.0	6097.32
MW-79	10.23.13	6127.81	None Observed	30.46	0.0	6097.35
	4.21.14		None Observed	30.05	0.0	6097.76
	10.27.14		None Observed	30.34	0.0	6097.47
	4.28.15		None Observed	29.91	0.0	6097.90
	10.20.15		None Observed	30.15	0.0	6097.66
	4.08.16		None Observed	29.69	0.0	6098.12
	10.07.16		None Observed	30.61	0.0	6097.20
	5.17.17		None Observed	29.71	0.0	6098.10
	10.10.17		None Observed	30.80	0.0	6097.01
	5.04.18		None Observed	30.74	0.0	6097.07
	10.04.18		None Observed	31.01	0.0	6096.80
MW-80	10.23.13	6124.39	None Observed	26.58	0.0	6097.81
	4.21.14		None Observed	26.12	0.0	6098.27
	10.27.14		None Observed	26.47	0.0	6097.92
	4.28.15		None Observed	25.91	0.0	6098.48
	4.08.16		None Observed	25.80	0.0	6098.59
	10.07.16		None Observed	26.72	0.0	6097.67
	5.17.17		None Observed	25.85	0.0	6098.54
	10.10.17		None Observed	26.86	0.0	6097.53
	5.04.18		None Observed	26.46	0.0	6097.93
	10.04.18		None Observed	27.19	0.0	6097.20

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TABLE 2
Largo Compressor Station
GROUNDWATER ELEVATIONS

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-83	10.23.13	6116.86	None Observed	18.91	0.0	6097.95
	4.21.14		None Observed	18.30	0.0	6098.56
	10.27.14		None Observed	18.79	0.0	6098.07
	4.28.15		None Observed	18.14	0.0	6098.72
	4.08.16		None Observed	18.04	0.0	6098.82
	10.07.16		None Observed	18.96	0.0	6097.90
	5.17.17		None Observed	18.10	0.0	6098.76
	10.10.17		None Observed	19.13	0.0	6097.73
	5.04.18		None Observed	18.69	0.0	6098.17
	10.04.18		None Observed	19.41	0.0	6097.45
MW-88	10.27.14	6118.65	None Observed	24.16	0.0	6094.49
	4.28.15		None Observed	23.71	0.0	6094.94
	10.20.15		None Observed	23.94	0.0	6094.71
	4.08.16		None Observed	23.49	0.0	6095.16
	10.07.16		None Observed	24.37	0.0	6094.28
	5.17.17		None Observed	23.60	0.0	6095.05
	10.10.17		None Observed	24.38	0.0	6094.27
	5.04.18		None Observed	24.09	0.0	6094.56
	10.04.18		None Observed	24.70	0.0	6093.95
MW-89	10.27.14	6118.31	None Observed	23.83	0.0	6094.48
	4.28.15		None Observed	23.44	0.0	6094.87
	10.20.15		None Observed	23.61	0.0	6094.70
	4.08.16		None Observed	23.26	0.0	6095.05
	10.07.16		None Observed	24.19	0.0	6094.12
	5.17.17		None Observed	23.35	0.0	6094.96
	10.10.17		None Observed	23.96	0.0	6094.35
	5.04.18		None Observed	23.91	0.0	6094.40
	10.04.18		None Observed	24.67	0.0	6093.64
MW-90	10.27.14	6117.82	None Observed	23.09	0.0	6094.73
	4.28.15		None Observed	22.73	0.0	6095.09
	10.20.15		None Observed	22.90	0.0	6094.92
	4.08.16		None Observed	22.57	0.0	6095.25
	10.07.16		None Observed	23.45	0.0	6094.37
	5.17.17		None Observed	22.64	0.0	6095.18
	10.10.17		None Observed	23.21	0.0	6094.61
	5.04.18		None Observed	23.20	0.0	6094.62
	10.04.18		None Observed	23.93	0.0	6093.89

NA-Not Analyzed

* - Regauged 1.31.11 to confirm product thickness

** - Aberrant gauging data

*** - Well effectively dry

1 - On 11/02/2012, this table was adjusted to reflect July 2012 re-survey and a specific gravity of 0.69 for NAPL

2 - Monitoring well MW-40 was replaced by MW-40R

3 - Monitoring well was inaccessible due to 2017 excavation and therefore was not gauged.

4 - Monitoring well MW-55 silted in

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APPENDIX C

Laboratory Data Sheets & Chain of Custody Documentation

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 16, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1805495

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/9/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1805495**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805495
Project: Largo Compressor Station

Lab ID: 1805495-001 **Collection Date:** 5/8/2018 9:00:00 AM
Client Sample ID: MW-89 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 5:33:23 PM	C5122E
Toluene	ND	1.0		µg/L	1	5/11/2018 5:33:23 PM	C5122E
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 5:33:23 PM	C5122E
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 5:33:23 PM	C5122E
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	5/11/2018 5:33:23 PM	C5122E
Surr: Toluene-d8	102	70-130		%Rec	1	5/11/2018 5:33:23 PM	C5122E

Lab ID: 1805495-002 **Collection Date:** 5/8/2018 9:30:00 AM
Client Sample ID: MW-88 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 6:42:56 PM	C5122E
Toluene	ND	1.0		µg/L	1	5/11/2018 6:42:56 PM	C5122E
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 6:42:56 PM	C5122E
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 6:42:56 PM	C5122E
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/11/2018 6:42:56 PM	C5122E
Surr: Toluene-d8	105	70-130		%Rec	1	5/11/2018 6:42:56 PM	C5122E

Lab ID: 1805495-003 **Collection Date:** 5/8/2018 10:00:00 AM
Client Sample ID: MW-90 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 7:06:06 PM	C5122E
Toluene	ND	1.0		µg/L	1	5/11/2018 7:06:06 PM	C5122E
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 7:06:06 PM	C5122E
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 7:06:06 PM	C5122E
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/11/2018 7:06:06 PM	C5122E
Surr: Toluene-d8	99.3	70-130		%Rec	1	5/11/2018 7:06:06 PM	C5122E

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805495**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805495
Project: Largo Compressor Station

Lab ID: 1805495-004 **Collection Date:** 5/8/2018 10:30:00 AM
Client Sample ID: MW-8 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 7:29:13 PM	C51228
Toluene	ND	1.0		µg/L	1	5/11/2018 7:29:13 PM	C51228
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 7:29:13 PM	C51228
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 7:29:13 PM	C51228
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	5/11/2018 7:29:13 PM	C51228
Surr: Toluene-d8	98.8	70-130		%Rec	1	5/11/2018 7:29:13 PM	C51228

Lab ID: 1805495-005 **Collection Date:** 5/8/2018 11:00:00 AM
Client Sample ID: MW-3R **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 7:52:19 PM	C51228
Toluene	ND	1.0		µg/L	1	5/11/2018 7:52:19 PM	C51228
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 7:52:19 PM	C51228
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 7:52:19 PM	C51228
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	5/11/2018 7:52:19 PM	C51228
Surr: Toluene-d8	103	70-130		%Rec	1	5/11/2018 7:52:19 PM	C51228

Lab ID: 1805495-006 **Collection Date:** 5/8/2018 11:30:00 AM
Client Sample ID: MW-15 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	1.3	1.0		µg/L	1	5/11/2018 10:10:48 PM	C51228
Toluene	ND	1.0		µg/L	1	5/11/2018 10:10:48 PM	C51228
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 10:10:48 PM	C51228
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 10:10:48 PM	C51228
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	5/11/2018 10:10:48 PM	C51228
Surr: Toluene-d8	101	70-130		%Rec	1	5/11/2018 10:10:48 PM	C51228

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805495**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805495
Project: Largo Compressor Station

Lab ID: 1805495-007 **Collection Date:** 5/8/2018 12:00:00 PM
Client Sample ID: MW-14 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/11/2018 10:33:59 PM	C51228
Toluene	ND	1.0		µg/L	1	5/11/2018 10:33:59 PM	C51228
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 10:33:59 PM	C51228
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 10:33:59 PM	C51228
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	5/11/2018 10:33:59 PM	C51228
Surr: Toluene-d8	101	70-130		%Rec	1	5/11/2018 10:33:59 PM	C51228

Lab ID: 1805495-008 **Collection Date:** 5/8/2018 12:30:00 PM
Client Sample ID: MW-7 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	35	1.0		µg/L	1	5/11/2018 10:57:04 PM	C51228
Toluene	ND	1.0		µg/L	1	5/11/2018 10:57:04 PM	C51228
Ethylbenzene	ND	1.0		µg/L	1	5/11/2018 10:57:04 PM	C51228
Xylenes, Total	ND	1.5		µg/L	1	5/11/2018 10:57:04 PM	C51228
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	5/11/2018 10:57:04 PM	C51228
Surr: Toluene-d8	91.3	70-130		%Rec	1	5/11/2018 10:57:04 PM	C51228

Lab ID: 1805495-009 **Collection Date:** 5/8/2018 1:00:00 PM
Client Sample ID: MW-13 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/14/2018 11:48:38 AM	C51264
Toluene	ND	1.0		µg/L	1	5/14/2018 11:48:38 AM	C51264
Ethylbenzene	ND	1.0		µg/L	1	5/14/2018 11:48:38 AM	C51264
Xylenes, Total	ND	1.5		µg/L	1	5/14/2018 11:48:38 AM	C51264
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	5/14/2018 11:48:38 AM	C51264
Surr: Toluene-d8	102	70-130		%Rec	1	5/14/2018 11:48:38 AM	C51264

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805495**
16-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**100ng lcs**	SampType:	**LCS4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**BatchQC**	Batch ID:	**C51228**	RunNo:	**51228**					
Prep Date:		Analysis Date:	**5/11/2018**	SeqNo:	**1665319**	Units:	**µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.2	80	120			
Toluene	19	1.0	20.00	0	96.7	80	120			
Ethylbenzene	20	1.0	20.00	0	99.5	80	120			
Xylenes, Total	59	1.5	60.00	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	**rb**	SampType:	**MBLK**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**PBW**	Batch ID:	**C51228**	RunNo:	**51228**					
Prep Date:		Analysis Date:	**5/11/2018**	SeqNo:	**1665345**	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	1.5								
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Toluene-d8	9.4		10.00		94.3	70	130			

Sample ID	**1805495-009ams**	SampType:	**MS4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**MW-13**	Batch ID:	**C51264**	RunNo:	**51264**					
Prep Date:		Analysis Date:	**5/14/2018**	SeqNo:	**1666391**	Units:	**µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.4	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	21	1.0	20.00	0	103	80	120			
Xylenes, Total	59	1.5	60.00	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.1	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	**1805495-009amsd**	SampType:	**MSD4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**MW-13**	Batch ID:	**C51264**	RunNo:	**51264**					
Prep Date:		Analysis Date:	**5/14/2018**	SeqNo:	**1666392**	Units:	**µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	88.6	80	120	6.31	20	
Toluene	19	1.0	20.00	0	95.4	80	120	5.16	20	
Ethylbenzene	19	1.0	20.00	0	95.1	80	120	8.17	20	
Xylenes, Total	57	1.5	60.00	0	94.5	80	120	4.52	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805495**
16-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**1805495-009amsd**	SampType:	**MSD4**		TestCode:	**EPA Method 8260: Volatiles Short List**				
Client ID:	**MW-13**	Batch ID:	**C51264**		RunNo:	**51264**				
Prep Date:		Analysis Date:	**5/14/2018**		SeqNo:	**1666392**	Units:	**µg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	70	130	0	0	

Sample ID	**rb**	SampType:	**MBLK**		TestCode:	**EPA Method 8260: Volatiles Short List**				
Client ID:	**PBW**	Batch ID:	**C51264**		RunNo:	**51264**				
Prep Date:		Analysis Date:	**5/14/2018**		SeqNo:	**1666393**	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	1.5								
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1805495 RcptNo: 1

Received By: Anne Thorne 5/9/2018 7:00:00 AM

Completed By: Anne Thorne 5/9/2018 11:57:39 AM

Reviewed By: JB 05/10/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☐ No ☑

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? JB

Checked by: _____

05/10/18

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS INTACT ON VOA VIALS/at 5/9/18

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande Suit A Aztec NM 87410

Project Manager K Sommers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Fleeman

Phone: 505-345-3975

PO/SO #: 225040 112154

Sampler's Name: Chad D'Apont

Sampler's Signature:

Proj. No.: 225040 112154

Project Name: Cargo Compressor Station

ANALYSIS REQUESTED: BTEX (8021)

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.4

1	2	3	4	5

Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	5/8/18	900			mw-89			3					1805495-001
W	5/8/18	930			mw-88			3					002
W	5/8/18	1000			mw-90			3					003
W	5/8/18	1030			mw-8			3					004
W	5/8/18	1100			mw-3R			3					005
W	5/8/18	1130			mw-15			3					006
W	5/8/18	1200			mw-14			3					007
W	5/8/18	1230			mw-7			3					008
W	5/8/18	1300			mw-13			3					009

Turn around time: ☒ Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/8/18	1415		5/8/18	1415
Walter White	5/8/18	1901		05/09/18	0700

NOTES: Bill to Apex (Corp Rate)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 16, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1805684

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 19 sample(s) on 5/11/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-001 **Collection Date:** 5/9/2018 9:00:00 AM
Client Sample ID: MW-6 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 10:22:45 AM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 10:22:45 AM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 10:22:45 AM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 10:22:45 AM	A51297
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	5/15/2018 10:22:45 AM	A51297
Surr: Toluene-d8	93.9	70-130		%Rec	1	5/15/2018 10:22:45 AM	A51297

Lab ID: 1805684-002 **Collection Date:** 5/9/2018 9:30:00 AM
Client Sample ID: MW-16 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 10:45:47 AM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 10:45:47 AM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 10:45:47 AM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 10:45:47 AM	A51297
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	5/15/2018 10:45:47 AM	A51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 10:45:47 AM	A51297

Lab ID: 1805684-003 **Collection Date:** 5/9/2018 10:00:00 AM
Client Sample ID: MW-9 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 11:08:54 AM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 11:08:54 AM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 11:08:54 AM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 11:08:54 AM	A51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 11:08:54 AM	A51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 11:08:54 AM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-004 **Collection Date:** 5/9/2018 11:00:00 AM
Client Sample ID: MW-54 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 12:18:20 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 12:18:20 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 12:18:20 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 12:18:20 PM	A51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 12:18:20 PM	A51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 12:18:20 PM	A51297

Lab ID: 1805684-005 **Collection Date:** 5/9/2018 11:30:00 AM
Client Sample ID: MW-48 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 12:41:25 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 12:41:25 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 12:41:25 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 12:41:25 PM	A51297
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	5/15/2018 12:41:25 PM	A51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 12:41:25 PM	A51297

Lab ID: 1805684-006 **Collection Date:** 5/9/2018 12:10:00 PM
Client Sample ID: MW-49 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 1:04:30 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 1:04:30 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 1:04:30 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 1:04:30 PM	A51297
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	5/15/2018 1:04:30 PM	A51297
Surr: Toluene-d8	98.7	70-130		%Rec	1	5/15/2018 1:04:30 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-007 **Collection Date:** 5/9/2018 12:50:00 PM
Client Sample ID: MW-53 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 1:27:30 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 1:27:30 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 1:27:30 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 1:27:30 PM	A51297
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	5/15/2018 1:27:30 PM	A51297
Surr: Toluene-d8	104	70-130		%Rec	1	5/15/2018 1:27:30 PM	A51297

Lab ID: 1805684-008 **Collection Date:** 5/9/2018 1:30:00 PM
Client Sample ID: MW-38 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 1:50:32 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 1:50:32 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 1:50:32 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 1:50:32 PM	A51297
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	5/15/2018 1:50:32 PM	A51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 1:50:32 PM	A51297

Lab ID: 1805684-009 **Collection Date:** 5/9/2018 2:10:00 PM
Client Sample ID: MW-34 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 2:13:35 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 2:13:35 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 2:13:35 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 2:13:35 PM	A51297
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	5/15/2018 2:13:35 PM	A51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 2:13:35 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-010 **Collection Date:** 5/9/2018 3:00:00 PM
Client Sample ID: MW-42 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 2:36:45 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 2:36:45 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 2:36:45 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 2:36:45 PM	A51297
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	5/15/2018 2:36:45 PM	A51297
Surr: Toluene-d8	107	70-130		%Rec	1	5/15/2018 2:36:45 PM	A51297

Lab ID: 1805684-011 **Collection Date:** 5/10/2018 9:00:00 AM
Client Sample ID: MW-83 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 2:59:47 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 2:59:47 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 2:59:47 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 2:59:47 PM	A51297
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	5/15/2018 2:59:47 PM	A51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 2:59:47 PM	A51297

Lab ID: 1805684-012 **Collection Date:** 5/10/2018 9:40:00 AM
Client Sample ID: MW-76 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 3:22:55 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 3:22:55 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 3:22:55 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 3:22:55 PM	A51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 3:22:55 PM	A51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 3:22:55 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-013 **Collection Date:** 5/10/2018 10:20:00 AM
Client Sample ID: MW-77 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 3:45:58 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 3:45:58 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 3:45:58 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 3:45:58 PM	A51297
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	5/15/2018 3:45:58 PM	A51297
Surr: Toluene-d8	103	70-130		%Rec	1	5/15/2018 3:45:58 PM	A51297

Lab ID: 1805684-014 **Collection Date:** 5/10/2018 11:00:00 AM
Client Sample ID: MW-80 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 4:09:00 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 4:09:00 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 4:09:00 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 4:09:00 PM	A51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 4:09:00 PM	A51297
Surr: Toluene-d8	103	70-130		%Rec	1	5/15/2018 4:09:00 PM	A51297

Lab ID: 1805684-015 **Collection Date:** 5/10/2018 11:40:00 AM
Client Sample ID: MW-79 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 4:32:02 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 4:32:02 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 4:32:02 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 4:32:02 PM	A51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 4:32:02 PM	A51297
Surr: Toluene-d8	103	70-130		%Rec	1	5/15/2018 4:32:02 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-016 **Collection Date:** 5/10/2018 12:00:00 PM
Client Sample ID: MW-75 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 4:55:06 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 4:55:06 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 4:55:06 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 4:55:06 PM	A51297
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	5/15/2018 4:55:06 PM	A51297
Surr: Toluene-d8	100	70-130		%Rec	1	5/15/2018 4:55:06 PM	A51297

Lab ID: 1805684-017 **Collection Date:** 5/10/2018 12:30:00 PM
Client Sample ID: MW-32 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 5:18:15 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 5:18:15 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 5:18:15 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 5:18:15 PM	A51297
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	5/15/2018 5:18:15 PM	A51297
Surr: Toluene-d8	100	70-130		%Rec	1	5/15/2018 5:18:15 PM	A51297

Lab ID: 1805684-018 **Collection Date:** 5/10/2018 1:10:00 PM
Client Sample ID: MW-43 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 5:41:20 PM	A51297
Toluene	ND	1.0		µg/L	1	5/15/2018 5:41:20 PM	A51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 5:41:20 PM	A51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 5:41:20 PM	A51297
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	5/15/2018 5:41:20 PM	A51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 5:41:20 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805684**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1805684
Project: Largo Compressor Station

Lab ID: 1805684-019 **Collection Date:** 5/10/2018 1:45:00 PM
Client Sample ID: MW-55 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	10	D	µg/L	10	5/15/2018 6:04:25 PM	A51297
Toluene	ND	10	D	µg/L	10	5/15/2018 6:04:25 PM	A51297
Ethylbenzene	ND	10	D	µg/L	10	5/15/2018 6:04:25 PM	A51297
Xylenes, Total	ND	15	D	µg/L	10	5/15/2018 6:04:25 PM	A51297
Surr: 4-Bromofluorobenzene	111	70-130	D	%Rec	10	5/15/2018 6:04:25 PM	A51297
Surr: Toluene-d8	101	70-130	D	%Rec	10	5/15/2018 6:04:25 PM	A51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805684**
16-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **100ng lcs**	SampType: **LCS4**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **A51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667454** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	87.7	80	120			
Toluene	19	1.0	20.00	0	95.9	80	120			
Ethylbenzene	19	1.0	20.00	0	97.3	80	120			
Xylenes, Total	58	1.5	60.00	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **100ng lcs2**	SampType: **LCS4**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **B51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667455** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID **1805684-001ams**	SampType: **MS4**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-6**	Batch ID: **A51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667457** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.6	80	120			
Toluene	20	1.0	20.00	0	98.2	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	60	1.5	60.00	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Sample ID **1805684-001amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **MW-6**	Batch ID: **A51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667458** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.5	80	120	5.15	20	
Toluene	21	1.0	20.00	0	103	80	120	5.14	20	
Ethylbenzene	20	1.0	20.00	0	99.5	80	120	2.82	20	
Xylenes, Total	58	1.5	60.00	0	96.0	80	120	3.85	20	
Surr: 4-Bromofluorobenzene	9.3		10.00		92.6	70	130	0	0	
Surr: Toluene-d8	11		10.00		110	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805684**
16-May-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **A51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667485** 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	1.5								
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **rb2**	SampType: **MBLK**	TestCode: **EPA Method 8260: Volatiles Short List**
Client ID: **PBW**	Batch ID: **B51297**	RunNo: **51297**
Prep Date:	Analysis Date: **5/15/2018**	SeqNo: **1667486** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1805684 | RcptNo: 1

Received By: Anne Thorne 5/11/2018 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 5/11/2018 3:18:42 PM Anne Thorne

Reviewed By: JMO 5/14/18

L: JB 05/14/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
10. Were any sample containers received broken? Yes ☑ No ☑ JB 05/14/18
    MW42 1 vial
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JB

05/14/18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

CUSTODY SEALS ON VOA VIALS/at 5/11/18

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suit A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 72505401128154

Sampler's Name: Chad D'Apont

Sampler's Signature:

Proj. No. 72505401128154

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: 15TEV 8021

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.8

Page 1 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	5/9/18	900			mw-6			3					1805684-001
W	5/9/18	930			mw-16			3					-002
W	5/9/18	1000			mw-9			3					-003
W	5/9/18	1100			mw-54			3					-004
W	5/9/18	1130			mw-48			3					-005
W	5/9/18	1210			mw-49			3					-006
W	5/9/18	1250			mw-53			3					-007
W	5/9/18	1330			mw-38			3					-008
W	5/9/18	~~1310~~ 1410			MW-34			3					-009
W	5/9/18	1500			mw-42			3					-010

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	5/10/18	1615		5/10/18	1615
	5/10/18	1811		05/11/18	0706

NOTES: Bill to Apex (Corp Rate)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4501 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 2250402154

Sampler's Name: Chad D'Apont

Sampler's Signature:

Proj. No.: 2250402154

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021

Lab use only
Due Date:

Temp. of coolers when received (C°): 1.8

1	2	3	4	5

Page 2 of 2

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	5/10/18	900			MW-83			3					1805684011
W	5/10/18	940			MW-76			3					-012
W	5/10/18	1020			MW-77			3					-013
W	5/10/18	1100			MW-80			3					-014
W	5/10/18	1140			MW-79			3					-015
W	5/10/18	1200			MW-75			3					-016
W	5/10/18	1230			MW-32			3					-017
W	5/10/18	1310			MW-43			3					-018
W	5/10/18	1345			MW-55			3					-019

Turn around time: (X) Normal ❑ 25% Rush ❑ 50% Rush ❑ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5-10-18	1615		5/10/18	1615
	5/10/18	1811		05/11/18	0706

NOTES: Bill to Apex (Corp Rate)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

May 16, 2018

Kyle Summers
APEX TITAN
606 S. Rio Grande Suite A
Aztec, NM 87410
TEL: (903) 821-5603
FAX

RE: Largo Campressor Station OrderNo.: 1805702

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/12/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1805702**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Lab Order:** 1805702
Project: Largo Campressor Station

Lab ID: 1805702-001 **Collection Date:** 5/11/2018 8:50:00 AM
Client Sample ID: MW-41 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 9:55:25 PM	B51297
Toluene	ND	1.0		µg/L	1	5/15/2018 9:55:25 PM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 9:55:25 PM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 9:55:25 PM	B51297
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	5/15/2018 9:55:25 PM	B51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 9:55:25 PM	B51297

Lab ID: 1805702-002 **Collection Date:** 5/11/2018 9:20:00 AM
Client Sample ID: MW-51 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 10:18:26 PM	B51297
Toluene	ND	1.0		µg/L	1	5/15/2018 10:18:26 PM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 10:18:26 PM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 10:18:26 PM	B51297
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	5/15/2018 10:18:26 PM	B51297
Surr: Toluene-d8	101	70-130		%Rec	1	5/15/2018 10:18:26 PM	B51297

Lab ID: 1805702-003 **Collection Date:** 5/11/2018 9:55:00 AM
Client Sample ID: MW-40R **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 11:27:42 PM	B51297
Toluene	ND	1.0		µg/L	1	5/15/2018 11:27:42 PM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 11:27:42 PM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 11:27:42 PM	B51297
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	5/15/2018 11:27:42 PM	B51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/15/2018 11:27:42 PM	B51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1805702**
Date Reported: **5/16/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Lab Order:** 1805702
Project: Largo Campressor Station

Lab ID: 1805702-004 **Collection Date:** 5/11/2018 10:30:00 AM
Client Sample ID: MW-50 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/15/2018 11:50:48 PM	B51297
Toluene	ND	1.0		µg/L	1	5/15/2018 11:50:48 PM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/15/2018 11:50:48 PM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/15/2018 11:50:48 PM	B51297
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	5/15/2018 11:50:48 PM	B51297
Surr: Toluene-d8	100	70-130		%Rec	1	5/15/2018 11:50:48 PM	B51297

Lab ID: 1805702-005 **Collection Date:** 5/11/2018 11:05:00 AM
Client Sample ID: MW-39 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	1.2	1.0		µg/L	1	5/16/2018 12:13:53 AM	B51297
Toluene	ND	1.0		µg/L	1	5/16/2018 12:13:53 AM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/16/2018 12:13:53 AM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/16/2018 12:13:53 AM	B51297
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	5/16/2018 12:13:53 AM	B51297
Surr: Toluene-d8	103	70-130		%Rec	1	5/16/2018 12:13:53 AM	B51297

Lab ID: 1805702-006 **Collection Date:** 5/11/2018 11:40:00 AM
Client Sample ID: MW-52 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	1.0		µg/L	1	5/16/2018 12:36:52 AM	B51297
Toluene	ND	1.0		µg/L	1	5/16/2018 12:36:52 AM	B51297
Ethylbenzene	ND	1.0		µg/L	1	5/16/2018 12:36:52 AM	B51297
Xylenes, Total	ND	1.5		µg/L	1	5/16/2018 12:36:52 AM	B51297
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	5/16/2018 12:36:52 AM	B51297
Surr: Toluene-d8	102	70-130		%Rec	1	5/16/2018 12:36:52 AM	B51297

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805702**
16-May-18

Client: APEX TITAN
Project: Largo Campressor Station

Sample ID	**100ng lcs2**	SampType:	**LCS4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**BatchQC**	Batch ID:	**B51297**	RunNo:	**51297**					
Prep Date:		Analysis Date:	**5/15/2018**	SeqNo:	**1667455**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.2	80	120			
Toluene	20	1.0	20.00	0	99.3	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	59	1.5	60.00	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.6	70	130			
Surr: Toluene-d8	10		10.00		103	70	130			

Sample ID	**1805702-002ams**	SampType:	**MS4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**MW-51**	Batch ID:	**B51297**	RunNo:	**51297**					
Prep Date:		Analysis Date:	**5/15/2018**	SeqNo:	**1667479**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0.4748	99.0	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	60	1.5	60.00	0.4286	98.5	80	120			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	10		10.00		105	70	130			

Sample ID	**1805702-002amsd**	SampType:	**MSD4**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**MW-51**	Batch ID:	**B51297**	RunNo:	**51297**					
Prep Date:		Analysis Date:	**5/15/2018**	SeqNo:	**1667480**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0.4748	94.4	80	120	4.63	20	
Toluene	20	1.0	20.00	0	99.7	80	120	2.61	20	
Ethylbenzene	20	1.0	20.00	0	99.3	80	120	1.25	20	
Xylenes, Total	59	1.5	60.00	0.4286	97.6	80	120	0.941	20	
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	10		10.00		101	70	130	0	0	

Sample ID	**rb2**	SampType:	**MBLK**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**PBW**	Batch ID:	**B51297**	RunNo:	**51297**					
Prep Date:		Analysis Date:	**5/15/2018**	SeqNo:	**1667486**	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	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1805702**
16-May-18

Client: APEX TITAN
Project: Largo Campressor Station

Sample ID	**rb2**	SampType:	**MBLK**	TestCode:	**EPA Method 8260: Volatiles Short List**					
Client ID:	**PBW**	Batch ID:	**B51297**	RunNo:	**51297**					
Prep Date:		Analysis Date:	**5/15/2018**	SeqNo:	**1667486**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	12		10.00		117	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1805702 | RcptNo: 1

Received By: Ashley Gallegos 5/12/2018 7:40:00 AM

Completed By: Ashley Gallegos 5/12/2018 8:17:04 AM

Reviewed By: 05/12/18 Labeled by: MW 5/12/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 5/12/18 (<2 or >12 unless noted)
Adjusted? MW
Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

****CUSTODY SEALS PRESENT AND INTACT ON BOTTLES

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

APEX

CHAIN OF CUSTODY RECORD

Office Location: 606 S Rio Grande Suit A Aztec NM 87410
Project Manager: K Sommers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE Albuquerque NM 87109
Contact: A. Freeman
Phone: 505-345-3975
PO/SO #: 725040112154

Sampler's Name: Chad DAponti
Sampler's Signature: [signature]

Proj. No.: 725040112154
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: 8260 (?)

Lab use only
Due Date:
Temp. of coolers when received (C°): 3.9 -0.3 (CF) 3.6
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	8260	Lab Sample ID (Lab Use Only)
w	5/11/18	850			mw-41			3					X	1805702-001
w	5/11/18	920			mw-51			3					X	-002
w	5/11/18	955			mw-40R			3					X	-003
w	5/11/18	1630			mw-50			3					X	-004
w	5/11/18	1105			mw-39			3					X	-005
w	5/11/18	1140			mw-52			3					X	-006

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
[signature]	5-11-18	1310	[signature]	5/11/18	1310
[signature]	5/11/18	1747	[signature]	05/12/18	0740

NOTES: Bill to Apex (Corp Rate)
COC Seal on Jars

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 15, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1810411

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 10 sample(s) on 10/6/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1810411**
Date Reported: **10/15/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810411
Project: Largo Compressor Station

Lab ID: 1810411-001 **Collection Date:** 10/4/2018 2:00:00 PM
Client Sample ID: MW-75 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 1:39:55 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 1:39:55 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 1:39:55 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 1:39:55 PM	R54764
Surr: 4-Bromofluorobenzene	105	76.6-136		%Rec	1	10/9/2018 1:39:55 PM	R54764

Lab ID: 1810411-002 **Collection Date:** 10/4/2018 2:35:00 PM
Client Sample ID: MW-42 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 2:02:44 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 2:02:44 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 2:02:44 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 2:02:44 PM	R54764
Surr: 4-Bromofluorobenzene	108	76.6-136		%Rec	1	10/9/2018 2:02:44 PM	R54764

Lab ID: 1810411-003 **Collection Date:** 10/5/2018 8:50:00 AM
Client Sample ID: MW-89 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 2:25:33 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 2:25:33 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 2:25:33 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 2:25:33 PM	R54764
Surr: 4-Bromofluorobenzene	106	76.6-136		%Rec	1	10/9/2018 2:25:33 PM	R54764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810411**
Date Reported: **10/15/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810411
Project: Largo Compressor Station

Lab ID: 1810411-004 **Collection Date:** 10/5/2018 9:25:00 AM
Client Sample ID: MW-88 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 2:48:26 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 2:48:26 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 2:48:26 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 2:48:26 PM	R54764
Surr: 4-Bromofluorobenzene	106	76.6-136		%Rec	1	10/9/2018 2:48:26 PM	R54764

Lab ID: 1810411-005 **Collection Date:** 10/5/2018 10:00:00 AM
Client Sample ID: MW-90 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 3:11:19 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 3:11:19 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 3:11:19 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 3:11:19 PM	R54764
Surr: 4-Bromofluorobenzene	107	76.6-136		%Rec	1	10/9/2018 3:11:19 PM	R54764

Lab ID: 1810411-006 **Collection Date:** 10/5/2018 10:40:00 AM
Client Sample ID: MW-8 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 3:34:06 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 3:34:06 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 3:34:06 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 3:34:06 PM	R54764
Surr: 4-Bromofluorobenzene	107	76.6-136		%Rec	1	10/9/2018 3:34:06 PM	R54764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810411**
Date Reported: **10/15/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810411
Project: Largo Compressor Station

Lab ID: 1810411-007 **Collection Date:** 10/5/2018 11:20:00 AM
Client Sample ID: MW-3R **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 3:56:59 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 3:56:59 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 3:56:59 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 3:56:59 PM	R54764
Surr: 4-Bromofluorobenzene	104	76.6-136		%Rec	1	10/9/2018 3:56:59 PM	R54764

Lab ID: 1810411-008 **Collection Date:** 10/5/2018 12:00:00 PM
Client Sample ID: MW-15 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	2.2	1.0		µg/L	1	10/9/2018 4:19:57 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 4:19:57 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 4:19:57 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 4:19:57 PM	R54764
Surr: 4-Bromofluorobenzene	108	76.6-136		%Rec	1	10/9/2018 4:19:57 PM	R54764

Lab ID: 1810411-009 **Collection Date:** 10/5/2018 12:40:00 PM
Client Sample ID: MW-14 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/9/2018 4:42:48 PM	R54764
Toluene	ND	1.0		µg/L	1	10/9/2018 4:42:48 PM	R54764
Ethylbenzene	ND	1.0		µg/L	1	10/9/2018 4:42:48 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 4:42:48 PM	R54764
Surr: 4-Bromofluorobenzene	105	76.6-136		%Rec	1	10/9/2018 4:42:48 PM	R54764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810411**
Date Reported: **10/15/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810411
Project: Largo Compressor Station

Lab ID: 1810411-010 **Collection Date:** 10/5/2018 1:40:00 PM
Client Sample ID: MW-7 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	5800	100		µg/L	100	10/12/2018 2:44:15 PM	BW548
Toluene	ND	1.0		µg/L	1	10/9/2018 5:05:39 PM	R54764
Ethylbenzene	63	1.0		µg/L	1	10/9/2018 5:05:39 PM	R54764
Xylenes, Total	ND	2.0		µg/L	1	10/9/2018 5:05:39 PM	R54764
Surr: 4-Bromofluorobenzene	128	76.6-136		%Rec	1	10/9/2018 5:05:39 PM	R54764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1810411**
15-Oct-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**100NG BTEX LCS**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSW**	Batch ID: **R54764**		RunNo: **54764**					
Prep Date:		Analysis Date: **10/9/2018**		SeqNo: **1817890**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	73.9	120			
Toluene	21	1.0	20.00	0	105	77.3	117			
Ethylbenzene	20	1.0	20.00	0	102	78.8	119			
Xylenes, Total	61	2.0	60.00	0	102	76.9	121			
Surr: 4-Bromofluorobenzene	21		20.00		106	76.6	136			

Sample ID	**RB**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBW**	Batch ID: **R54764**		RunNo: **54764**					
Prep Date:		Analysis Date: **10/9/2018**		SeqNo: **1817905**		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		101	76.6	136			

Sample ID	**100NG BTEX LCS**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSW**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1820254**		Units: **%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	20		20.00		101	76.6	136			

Sample ID	**RB**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBW**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1821112**		Units: **%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	20		20.00		101	76.6	136			

Sample ID	**100NG BTEX LCS**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSW**	Batch ID: **BW54829**		RunNo: **54829**					
Prep Date:		Analysis Date: **10/12/2018**		SeqNo: **1823273**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	73.9	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	76.6	136			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1810411**
15-Oct-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBW**	Batch ID:	**BW54829**	RunNo:	**54829**					
Prep Date:		Analysis Date:	**10/12/2018**	SeqNo:	**1823278**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 4-Bromofluorobenzene	20		20.00		101	76.6	136			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1810411 | RcptNo: 1

Received By: Jazzmine Burkhead 10/6/2018 10:00:00 AM

Completed By: Michelle Garcia 10/8/2018 11:30:21 AM

Reviewed By: MG 10/08/18

Labeled by: 10.8.18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 10.8.18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Not Present			

CHAIN OF CUSTODY RECORD

APEX

Office Location: 606 S Rio Grande Suit A Aztec NM 87410
Project Manager: K Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE Albuquerque NM 87109
Contact: A Freeman
Phone: 505-345-3975
PO/SO #: 725040112154A-003

Sampler's Name: Chad D'Aponti
Sampler's Signature: [signature]

Proj. No.:
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX (8021)

Lab use only
Due Date:
Temp. of coolers when received (C°): 5.4-0.4 (CF)=5.0
1 | 2 | 3 | 4 | 5
Page ____ of ____

Lab Sample ID (Lab Use Only): 1810411

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	Glass Jar	P/O	BTEX (8021)	Lab Sample ID (Lab Use Only)
W	10/4/18	1400			MW-75			3					X	001
W	10/4/18	1435			MW-42			3					X	002
W	10/5/18	850			MW-89			3					X	003
W	10/5/18	925			MW-88			3					X	004
W	10/5/18	1000			MW-90			3					X	005
W	10/5/18	1040			MW-8			3					X	006
W	10/5/18	1120			MW-3R			3					X	007
W	10/5/18	1200			MW-15			3					X	008
W	10/5/18	1240			MW-14			3					X	009
W	10/5/18	1340			MW-7			3					X	010

Turn around time: ☒ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-5-18	1438	Christen West	10/5/18	1438
Christen West	10/5/18	1811	[signature] Buckhead	10/6/18	10:00

NOTES: Bill to Apex (Cap Rate)
Courier
Container have custody seals. mg 10/06/18

Matrix: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - sludge, O - Oil
Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 12, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1810636

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/10/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1810636**
Date Reported: **10/12/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810636
Project: Largo Compressor Station

Lab ID: 1810636-001 **Collection Date:** 10/8/2018 11:30:00 AM
Client Sample ID: MW-13 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/11/2018 8:49:30 PM	B54806
Toluene	ND	1.0		µg/L	1	10/11/2018 8:49:30 PM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/11/2018 8:49:30 PM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/11/2018 8:49:30 PM	B54806
Surr: 4-Bromofluorobenzene	109	76.6-136		%Rec	1	10/11/2018 8:49:30 PM	B54806

Lab ID: 1810636-002 **Collection Date:** 10/8/2018 12:05:00 PM
Client Sample ID: MW-6 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/11/2018 9:57:42 PM	B54806
Toluene	ND	1.0		µg/L	1	10/11/2018 9:57:42 PM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/11/2018 9:57:42 PM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/11/2018 9:57:42 PM	B54806
Surr: 4-Bromofluorobenzene	109	76.6-136		%Rec	1	10/11/2018 9:57:42 PM	B54806

Lab ID: 1810636-003 **Collection Date:** 10/8/2018 12:40:00 PM
Client Sample ID: MW-16 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/11/2018 10:20:24 PM	B54806
Toluene	ND	1.0		µg/L	1	10/11/2018 10:20:24 PM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/11/2018 10:20:24 PM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/11/2018 10:20:24 PM	B54806
Surr: 4-Bromofluorobenzene	109	76.6-136		%Rec	1	10/11/2018 10:20:24 PM	B54806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810636**
Date Reported: **10/12/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810636
Project: Largo Compressor Station

Lab ID: 1810636-004 **Collection Date:** 10/8/2018 1:20:00 PM
Client Sample ID: MW-9 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/11/2018 10:43:03 PM	B54806
Toluene	ND	1.0		µg/L	1	10/11/2018 10:43:03 PM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/11/2018 10:43:03 PM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/11/2018 10:43:03 PM	B54806
Surr: 4-Bromofluorobenzene	110	76.6-136		%Rec	1	10/11/2018 10:43:03 PM	B54806

Lab ID: 1810636-005 **Collection Date:** 10/8/2018 2:30:00 PM
Client Sample ID: MW-54 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/11/2018 11:05:47 PM	B54806
Toluene	ND	1.0		µg/L	1	10/11/2018 11:05:47 PM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/11/2018 11:05:47 PM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/11/2018 11:05:47 PM	B54806
Surr: 4-Bromofluorobenzene	106	76.6-136		%Rec	1	10/11/2018 11:05:47 PM	B54806

Lab ID: 1810636-006 **Collection Date:** 10/9/2018 9:40:00 AM
Client Sample ID: MW-48 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	11	1.0		µg/L	1	10/12/2018 12:59:13 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 12:59:13 AM	B54806
Ethylbenzene	7.0	1.0		µg/L	1	10/12/2018 12:59:13 AM	B54806
Xylenes, Total	10	2.0		µg/L	1	10/12/2018 12:59:13 AM	B54806
Surr: 4-Bromofluorobenzene	114	76.6-136		%Rec	1	10/12/2018 12:59:13 AM	B54806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810636**
Date Reported: **10/12/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810636
Project: Largo Compressor Station

Lab ID: 1810636-007 **Collection Date:** 10/9/2018 10:20:00 AM
Client Sample ID: MW-49 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/12/2018 1:21:54 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 1:21:54 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 1:21:54 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 1:21:54 AM	B54806
Surr: 4-Bromofluorobenzene	112	76.6-136		%Rec	1	10/12/2018 1:21:54 AM	B54806

Lab ID: 1810636-008 **Collection Date:** 10/9/2018 11:00:00 AM
Client Sample ID: MW-53 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/12/2018 1:44:34 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 1:44:34 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 1:44:34 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 1:44:34 AM	B54806
Surr: 4-Bromofluorobenzene	108	76.6-136		%Rec	1	10/12/2018 1:44:34 AM	B54806

Lab ID: 1810636-009 **Collection Date:** 10/9/2018 11:40:00 AM
Client Sample ID: MW-40R **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/12/2018 2:07:13 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 2:07:13 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 2:07:13 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 2:07:13 AM	B54806
Surr: 4-Bromofluorobenzene	111	76.6-136		%Rec	1	10/12/2018 2:07:13 AM	B54806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit

Analytical Report
Lab Order: **1810636**
Date Reported: **10/12/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Lab Order:** 1810636
Project: Largo Compressor Station

Lab ID: 1810636-010 **Collection Date:** 10/9/2018 12:20:00 PM
Client Sample ID: MW-50 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/12/2018 2:29:58 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 2:29:58 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 2:29:58 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 2:29:58 AM	B54806
Surr: 4-Bromofluorobenzene	107	76.6-136		%Rec	1	10/12/2018 2:29:58 AM	B54806

Lab ID: 1810636-011 **Collection Date:** 10/9/2018 1:00:00 PM
Client Sample ID: MW-39 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	1.2	1.0		µg/L	1	10/12/2018 2:52:40 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 2:52:40 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 2:52:40 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 2:52:40 AM	B54806
Surr: 4-Bromofluorobenzene	105	76.6-136		%Rec	1	10/12/2018 2:52:40 AM	B54806

Lab ID: 1810636-012 **Collection Date:** 10/9/2018 1:40:00 PM
Client Sample ID: MW-52 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	10/12/2018 3:15:21 AM	B54806
Toluene	ND	1.0		µg/L	1	10/12/2018 3:15:21 AM	B54806
Ethylbenzene	ND	1.0		µg/L	1	10/12/2018 3:15:21 AM	B54806
Xylenes, Total	ND	2.0		µg/L	1	10/12/2018 3:15:21 AM	B54806
Surr: 4-Bromofluorobenzene	106	76.6-136		%Rec	1	10/12/2018 3:15:21 AM	B54806

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical Quanitative Limit
RL	Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1810636**
12-Oct-18

Client: Apex Titan, Inc.
Project: Largo Compressor Station

Sample ID	**100NG BTEX LCS**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSW**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1820254**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	73.9	120			
Toluene	21	1.0	20.00	0	104	77.3	117			
Ethylbenzene	20	1.0	20.00	0	102	78.8	119			
Xylenes, Total	61	2.0	60.00	0	102	76.9	121			
Surr: 4-Bromofluorobenzene	20		20.00		101	76.6	136			

Sample ID	**1810636-001A MS**	SampType: **MS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**MW-13**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1821098**		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	75	121			
Toluene	22	1.0	20.00	0	108	78.1	119			
Ethylbenzene	21	1.0	20.00	0	105	78.8	125			
Xylenes, Total	63	2.0	60.00	0	105	76.4	128			
Surr: 4-Bromofluorobenzene	22		20.00		110	76.6	136			

Sample ID	**1810636-001A MSD**	SampType: **MSD**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**MW-13**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1821099**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	75	121	4.17	20	
Toluene	20	1.0	20.00	0	102	78.1	119	5.61	20	
Ethylbenzene	20	1.0	20.00	0	101	78.8	125	4.22	20	
Xylenes, Total	60	2.0	60.00	0	99.5	76.4	128	5.19	20	
Surr: 4-Bromofluorobenzene	22		20.00		108	76.6	136	0	0	

Sample ID	**RB**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBW**	Batch ID: **B54806**		RunNo: **54806**					
Prep Date:		Analysis Date: **10/11/2018**		SeqNo: **1821112**		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		101	76.6	136			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 Titan | Work Order Number: 1810636 | RcptNo: 1

Received By: Victoria Zellar 10/10/2018 8:00:00 AM Victoria Zellar

Completed By: Ashley Gallegos 10/10/2018 4:22:48 PM

Reviewed By: JAB 10/11/18

Labeled by: IO 10/11/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

IO 10/11/18

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suit A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE Albuquerque NM 87109

Contact: A Freeman

Phone: 505-345-3975

PO/SO #: 2250410112154/A-002

Sampler's Name: C DiAponti

Sampler's Signature:

Proj. No.

Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 1 of 2

2.1-(CF)1.0=1.1
WZ 10/10/18 8:00

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	AG 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	10/8/18	1130			mw-13			3					1810636-001
W	10/8/18	1205			mw-6			3					-002
W	10/8/18	1240			mw-16			3					-003
W	10/8/18	1320			mw-9			3					-004
W	10/8/18	1430			mw-54			3					-005
W	10/9/18	940			mw-48			3					-006
W	10/9/18	1020			mw-49			3					-007
W	10/9/18	1100			mw-53			3					-008
W	10/9/18	1140			mw-46R			3					-009
W	10/9/18	1220			mw-50			3					-010

Turn around time: ☑ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	10-9-18	1506		10/9/18	1506
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
	10/9/18	1947		10/10/18	8:00
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time

NOTES:
B,11 to Apex
(Corp Rate)

Courier WZ 10/10/18 8:00

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; AG - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

Apex TITAN, Inc. • 606 S. Rio Grande, Suite A, Downstairs • Aztec, New Mexico 87410 • Office: 505-334-5200 • Fax: 505-334-5204

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S Rio Grande Suite A Aztec NM 87410

Project Manager K Summers

Laboratory: Hall Environmental Lab

Address: ABQ NM 87109 4901 Hawkins NE

Contact: A Freeman

Phone:

PO/SO #: 2505010112154 A-007

Sampler's Name: C DAPonte

Sampler's Signature:

Proj. No.

Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 2 of 2

2.1-(CF)1.0=1.1
VVZ
10/10/18
8:00

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	10/9/18	1300			MW-39			3					4 2810636-011
W	10/9/18	1340			MW-52			3					4 -012

MW-5

Turn around time ☑ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-9-18	1506		10/9/18	1506
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/9/18	1947		10/10/18	8:00
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time

NOTES:

Bill to Apex
(Corp Rate)

Invoice VVZ 10/10/18 8:00

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil

Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 17, 2018

Kyle Summers

Apex Titan, Inc.
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (214) 350-5469
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1810741

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 10/12/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-51
Project: Largo CS **Collection Date:** 10/10/2018 9:00:00 AM
Lab ID: 1810741-001 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 1:13:18 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 1:13:18 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 1:13:18 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 1:13:18 PM	B54891
Surr: 4-Bromofluorobenzene	116	76.6-136		%Rec	1	10/16/2018 1:13:18 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-41
Project: Largo CS **Collection Date:** 10/10/2018 9:40:00 AM
Lab ID: 1810741-002 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 1:35:49 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 1:35:49 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 1:35:49 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 1:35:49 PM	B54891
Surr: 4-Bromofluorobenzene	117	76.6-136		%Rec	1	10/16/2018 1:35:49 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-32
Project: Largo CS **Collection Date:** 10/10/2018 10:20:00 AM
Lab ID: 1810741-003 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 1:58:18 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 1:58:18 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 1:58:18 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 1:58:18 PM	B54891
Surr: 4-Bromofluorobenzene	112	76.6-136		%Rec	1	10/16/2018 1:58:18 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-43
Project: Largo CS **Collection Date:** 10/10/2018 11:20:00 AM
Lab ID: 1810741-004 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 3:51:14 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 3:51:14 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 3:51:14 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 3:51:14 PM	B54891
Surr: 4-Bromofluorobenzene	112	76.6-136		%Rec	1	10/16/2018 3:51:14 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-34
Project: Largo CS **Collection Date:** 10/10/2018 12:00:00 PM
Lab ID: 1810741-005 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 4:13:50 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 4:13:50 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 4:13:50 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 4:13:50 PM	B54891
Surr: 4-Bromofluorobenzene	116	76.6-136		%Rec	1	10/16/2018 4:13:50 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-38
Project: Largo CS **Collection Date:** 10/10/2018 12:40:00 PM
Lab ID: 1810741-006 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 4:36:39 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 4:36:39 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 4:36:39 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 4:36:39 PM	B54891
Surr: 4-Bromofluorobenzene	112	76.6-136		%Rec	1	10/16/2018 4:36:39 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-83
Project: Largo CS **Collection Date:** 10/10/2018 1:30:00 PM
Lab ID: 1810741-007 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 4:59:25 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 4:59:25 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 4:59:25 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 4:59:25 PM	B54891
Surr: 4-Bromofluorobenzene	111	76.6-136		%Rec	1	10/16/2018 4:59:25 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-76
Project: Largo CS **Collection Date:** 10/10/2018 2:20:00 PM
Lab ID: 1810741-008 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 5:22:11 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 5:22:11 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 5:22:11 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 5:22:11 PM	B54891
Surr: 4-Bromofluorobenzene	111	76.6-136		%Rec	1	10/16/2018 5:22:11 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-77
Project: Largo CS **Collection Date:** 10/11/2018 9:20:00 AM
Lab ID: 1810741-009 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 5:44:48 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 5:44:48 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 5:44:48 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 5:44:48 PM	B54891
Surr: 4-Bromofluorobenzene	109	76.6-136		%Rec	1	10/16/2018 5:44:48 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-80
Project: Largo CS **Collection Date:** 10/11/2018 10:00:00 AM
Lab ID: 1810741-010 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 6:07:22 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 6:07:22 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 6:07:22 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 6:07:22 PM	B54891
Surr: 4-Bromofluorobenzene	113	76.6-136		%Rec	1	10/16/2018 6:07:22 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1810741**
Date Reported: **10/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** MW-79
Project: Largo CS **Collection Date:** 10/11/2018 10:40:00 AM
Lab ID: 1810741-011 **Matrix:** AQUEOUS **Received Date:** 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/16/2018 6:30:05 PM	B54891
Toluene	ND	1.0		µg/L	1	10/16/2018 6:30:05 PM	B54891
Ethylbenzene	ND	1.0		µg/L	1	10/16/2018 6:30:05 PM	B54891
Xylenes, Total	ND	2.0		µg/L	1	10/16/2018 6:30:05 PM	B54891
Surr: 4-Bromofluorobenzene	111	76.6-136		%Rec	1	10/16/2018 6:30:05 PM	B54891

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1810741**
17-Oct-18

Client: Apex Titan, Inc.
Project: Largo CS

Sample ID	**RB**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBW**	Batch ID:	**B54891**	RunNo:	**54891**					
Prep Date:		Analysis Date:	**10/16/2018**	SeqNo:	**1825026**	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	23		20.00		114	76.6	136			

Sample ID	**100NG BTEX LCS**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSW**	Batch ID:	**B54891**	RunNo:	**54891**					
Prep Date:		Analysis Date:	**10/16/2018**	SeqNo:	**1825027**	Units:	**µg/L**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	93.5	73.9	120			
Toluene	20	1.0	20.00	0	98.1	77.3	117			
Ethylbenzene	19	1.0	20.00	0	96.5	78.8	119			
Xylenes, Total	57	2.0	60.00	0	95.8	76.9	121			
Surr: 4-Bromofluorobenzene	22		20.00		112	76.6	136			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1810741 RcptNo: 1

Received By: Victoria Zellar 10/12/2018 8:07:00 AM Victoria Zellar

Completed By: Erin Melendrez 10/12/2018 8:45:36 AM

Reviewed By: VVZ 10/12/18

LB: IO 10/12/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

IO 10/12/18

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			
2	2.7	Good	Yes			

CHAIN OF CUSTODY RECORD

APEX

Office Location 606 S. Rio Grande Suite A
Aztec NM 87410
Project Manager K. Summers

Laboratory: Hall Environmental Lab
Address: 4901 Hawkins NE
Albuquerque NM 87109
Contact: A Fluerman
Phone: 505-345-3975
PO/SO #: 725040112-1541A-002

Sampler's Name: Chad D'Aponte
Sampler's Signature:

Proj. No.
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX 8021

Lab use only
Due Date:
Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5
Page 1 of 2

2 Coolers
3.9 (F) (06) = 3.3
3.3 (CF) 06 = ~~2.9~~ 2.7 VVT 10/12/18

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
W	10/10/18	900			MW-51			3					810741-001
W	10/10/18	940			MW-41			3					-002
W	10/10/18	1030			MW-32			3					-003
W	10/10/18	1120			MW-43			3					-004
W	10/10/18	1200			MW-34			3					-005
W	10/10/18	1240			MW-38			3					-006
W	10/10/18	1330			MW-83			3					-007
W	10/10/18	1420			MW-76			3					-008
W	10/11/18	920			MW-77			3					-009
W	10/11/18	1000			MW-80			3					-010

Turn around time: ☑ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/11/18	1318		10/11/18	1318
	10/11/18	1804		10/12/18	8:07

NOTES:
Bill to Apex
(Corp Rate)

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

CHAIN OF CUSTODY RECORD

APEX

Office Location: Lab S Rio Grande Suite A Aztec NM 87410

Project Manager: K Summers

Laboratory: Hall Environmental Lab

Address: 4901 Hawkins NE ~~4901 Hawkins~~ S ABQ NM

Contact: A Friedman

Phone:

PO/SO #:

Sampler's Name: C D Arondi

Sampler's Signature:

Proj. No.

Project Name: Largo Compressor Station

No/Type of Containers

ANALYSIS REQUESTED: BTEX 8021

Lab use only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Page 1 of 1

2 Coolers
3.9-(0.6) = 3.3
3.3-(0.6) = ~~2.7~~ 2.7 VV2 10/12/18

1810741
Lab Sample ID (Lab Use Only)

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	
W	10/11/18	1040			MW 79			3					-011

Turn around time: ☑ Normal ☐ 25% Rush ☐ 50% Rush ☐ 100% Rush

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/11/18	1318		10/11/18	1318
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/11/18	1804	Cousin VV2 10/12/18 8:07	10/12/18	8:07
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
Bill to Apex
[Corp Rate]

Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - sludge; O - Oil
Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 46062

CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 46062
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Interim Remediation and Groundwater Monitoring Report Report: Content satisfactory 1. Follow recommendations stated within 2020 Interim Remediation and Groundwater Monitoring Report. a. Report the interim remediation and groundwater monitoring results to OCD b. Continue the SVE and AS activities to further reduce COC concentrations in Area 1 soils and groundwater c. Add monitoring wells to assess the primary COC dissolved-phase groundwater plume in Area 3, where numerous monitoring wells were removed during excavation activities d. Advance and sample an additional soil boring west of former soil boring SB-98 to evaluate remaining soils in this area e. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022 f. Prepare a Stage 2 Abatement Plan after the Stage 1 Abatement Plan has been administratively completed and implemented (currently pending).	2/10/2022