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ANNUAL GROUNDWATER MONITORING REPORT (JUNE 2017 AND JANUARY 2018 SAMPLING EVENTS)

Property:

Trunk 6C Kutz Wash Pipeline Release SW 1/4, S26 T28N R11W San Juan County, New Mexico OCD RP: 3R-438

May 24, 2018 Apex Project No. 725040112183

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ANNUAL GROUNDWATER MONITORING REPORT (JUNE 2017 AND JANUARY 2018 SAMPLING EVENTS) Trunk 6C Kutz Wash Pipeline Release **Executive Summary**

The Trunk 6C Kutz Wash pipeline release site, referred to hereinafter as the "Site", is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way in the southwest (SW) 1/4 of Section 26, Township 28 North, Range 11 West, in San Juan County, New Mexico (36.63202N, 107.97400W). The surrounding area is predominately rangeland, periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately northwest to southeast.

On September 22, 2011, a pipeline release of natural gas and associated pipeline liquids was discovered at the Site and the pipeline was subsequently repaired. A Site assessment conducted by Animas Environmental Services, LLC (AES) during October 2011 identified total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbon (TPH) concentrations in "test hole" excavation soil and groundwater that exceeded the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels (RALs) for soils and the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs) for groundwater.

During November 2011, AES advanced eight (8) soil borings at the Site to 1 extent of hydrocarbon affected soil and potentially impacted group Impacts 3 sture groundwater analytical data indicated constituent of concern New Mexico EMNRD OCD RALs and WQCC GQSs.

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During September 2012, AES advanced nin to further evaluate the extent of disc analytical results, COCs were no these soil boring/monitoring well lo the WQCC GQSs. On October 16. AES. Soil and groundwater sample. COC concentrations above the New I

On October 28, 2013, an additional lea the pipeline was subsequently repaired soils samples from the pipeline repair ext concentrations above the New Mexico E were conducted in four (4) wells by AES to for hydraulic conductivity averaged 5.27E-0 analysis and 8.81E-03 cm/sec using recovery

During September 2016, Apex advanced five (soil borings were completed as groundwater mo the New Mexico EMNRD OCD RALS at soil bor. 18A. In addition, COC concentrations were identifu monitoring well MW-17. Semi-annual groundwater monitoring events are ongoing at the Site.

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.nee (3) of the five (5) vere identified in soil above ...g wells MW-15, MW-17, and SBgroundwater above the WQCC GQSs in The objective of the semi-annual groundwater water monitoring events was to further evaluate the concentrations of COCs in soil/groundwater at the Site.

- During June 2017 and January 2018, Apex performed groundwater sampling events at the Site. During completion of the June and January sampling events, one (1) groundwater sample was collected from each monitoring well utilizing low-flow or bailer sampling techniques. Monitoring well MW-12 was not sampled during either event due to an obstructed screen/casing. Monitoring well MW-11 did not produce a sufficient volume of water to allow for the collection of samples during the June sampling event and was not sampled.
- The groundwater flow direction at the Site is generally toward the northwest, with an average gradient of approximately 0.008 feet per foot (ft/ft) across Site.
- During the June 2017 sampling event, the groundwater samples collected from monitoring wells MW-1 and MW-17 exhibited BTEX constituent concentrations above the applicable WQCC GQSs. The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the applicable WQCC GQSs.
- During the January 2018 sampling event, the groundwater sample collected from monitoring well MW-1 exhibited BTEX constituent concentrations above the applicable WQCC GQSs. The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the applicable WQCC GQSs.
- With the exception of monitoring well MW-1, which has exhibited relatively consistent COC concentrations, results from the sampling events at the Site demonstrate generally declining COC concentrations in groundwater.

Apex offers the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;
- Continue semi-annual groundwater sampling; and,
- Evaluate in situ remediation as an option to address remaining soil and/or groundwater impact at the Site.

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ANNUAL GROUNDWATER MONITORING REPORT (JUNE 2017 AND JANUARY 2018 SAMPLING EVENTS)

Trunk 6C Kutz Wash Pipeline Release SW 1/4, S26 T28N R11W San Juan County, New Mexico OCR RP: 3R-438

Apex Project No. 725040112183

1.0 INTRODUCTION

1.1 Site Description & Background

The Trunk 6C Kutz Wash pipeline release site, referred to hereinafter as the "Site", is located within the Enterprise Field Services, LLC (Enterprise) pipeline right-of-way (ROW) in the southwest (SW) 1/4 of Section 26, Township 28 North, Range 11 West, in San Juan County, New Mexico (36.63202N, 107.97400W). The surrounding area is predominately rangeland, periodically interrupted by oil and gas production and gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from approximately northwest to southeast.

On September 22, 2011, a pipeline release of natural gas and associated pipeline liquids was discovered at the Site and the pipeline was subsequently repaired. Animas Environmental Services, LLC (AES) collected one (1) soil sample from the floor of the repair excavation. Based on field screening results, the soil sample exhibited elevated levels of volatile organic compounds (VOCs). A site assessment was conducted by AES on October 11, 2011, which included the collection of soil samples from four (4) test holes (TP-1 through TP-4) which were advanced near the release area, as well as groundwater samples from two (2) of the four (4) test holes. Based on laboratory analytical results, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and total petroleum hydrocarbons (TPH) were identified in soils from two (2) of the test holes (TP-1 and TP-2) at concentrations above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels (RALs)*. The test hole water samples collected from TP-2 and TP-4 exhibited concentrations of benzene, toluene, and total xylenes above New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards (GQSs)*. Additional detail regarding the initial site assessment activities are provided in the *Release Assessment Report, dated October 28, 2011- AES*.

During November 2011, AES advanced eight (8) soil borings (SB-1 through SB-8) at the Site to further delineate the extent of hydrocarbon affected soil and potentially impacted groundwater. Laboratory analytical results for the soil and groundwater samples collected from the soil borings identified constituent of concern (COC) concentrations in soil above the New Mexico EMNRD OCD *RALs* (SB-2, SB-7, and SB-8) and in groundwater above the WQCC *GQSs* (SB-2W, SB-3W, and SB-7W) (*Site Investigation Report, dated February 20, 2012 – AES*).

During September 2012, nine (9) additional soil borings were advanced at the Site by AES to further evaluate the extent of dissolved phase COCs in groundwater. Subsequent to advancement, the soil borings were completed as groundwater monitoring wells (MW-1 through MW-9). Laboratory analytical results did not indicate COCs in soil above the New Mexico EMNRD OCD *RALs* at these soil boring/monitoring well locations. However, COCs were confirmed in groundwater above the WQCC *GQSs (Groundwater Investigation Report, dated October 31, 2012 – AES*).



On October 16, 2013, AES advanced four (4) additional soil borings/monitoring wells (MW-10 through MW-13) in and around the former release area to further evaluate the extent of COCs in groundwater. Laboratory analytical results indicated COC concentrations in soil and groundwater from soil boring/monitoring well MW-10 were present at levels above the New Mexico EMNRD OCD *RALs* and the WQCC *GQSs.* (*3rd Quarter 2013 Groundwater Monitoring and Well Installation Report, dated December 10, 2013 and 4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report, dated July 23, 2014 – AES).*

On October 28, 2013, an additional leak was discovered in the vicinity of the original release and the pipeline was subsequently repaired. On December 17, 2013, AES collected 20 discrete soil samples from the resulting pipeline repair excavation. Laboratory analytical results indicated benzene, total BTEX, and total TPH concentrations in soil were above the New Mexico EMNRD OCD *RALs*. In addition, aquifer pumping tests were conducted at four wells (MW-6 through MW-9) by AES to estimate hydraulic conductivity. Based on pumping test results, the reported estimate for hydraulic conductivity averaged 5.27E-03 centimeters per second (cm/sec) and 8.81E-03 cm/sec using drawdown and recovery analysis, respectively. (*4th Quarter 2013 Groundwater Monitoring and Continued Investigation Report, dated July 23, 2014 – AES*).

During September 2016, Apex performed site investigation activities to further evaluate and delineate the concentrations of COCs in soil and groundwater at the Site. Five (5) soil borings were advanced and three (3) of the five (5) soil borings were completed as groundwater monitoring wells MW-14, MW-15, and MW-17. Laboratory analytical results indicated COC concentrations in soil (MW-15 and MW-17) and groundwater (MW-17) above the New Mexico EMNRD OCD *RALs* and the WQCC *GQSs* (*Supplemental Environmental Site Investigation (September 2016) and Annual Groundwater Monitoring Report (June and December 2016), dated February 13, 2017 – Apex*).

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

A **Topographic Map** is provided as **Figure 1** of **Appendix A** which was reproduced from a portion of the 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**, and a **Site Map**, which indicates the locations of the monitoring wells and sample locations in relation to pertinent structures and general Site boundaries, is included as **Figure 3** of **Appendix A**.

1.2 Objective

The objective of the semi-annual groundwater monitoring was to further evaluate the concentrations of COCs in groundwater at the Site with respect to WQCC GQSs.



2.0 GROUNDWATER MONITORING

2.1 Groundwater Sampling Program

During June 2017 and January 2018, Apex conducted semi-annual groundwater sampling events.

Apex's 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 non-aqueous phase liquids (NAPL). NAPL was not detected at any of the monitoring well locations during either sampling event.

Each monitoring well was sampled utilizing either micro-purge low-flow or bailer sampling techniques. Subsequent to the completion of the micro-purge process, one (1) groundwater sample was collected from each of these monitoring wells.

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

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.

Monitoring well MW-12 was not sampled during the June and January sampling events due to an obstructed well screen/casing.

The casings of monitoring wells MW-10 through MW-13 are approximately 1-inch in diameter, which is smaller than the bladder pump diameter. As a result, these 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, one (1) groundwater sample was collected from each monitoring well. During the June 2017 sampling event, monitoring well MW-11 was not sampled. The monitoring well did not produce a sufficient volume of water to allow for the collection of samples.

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 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 Program

Groundwater samples were analyzed for BTEX utilizing EPA SW-846 Method 8021/8260. Sample containers for groundwater were pre-preserved with mercuric chloride (HgCl₂).

A summary of the analyte, sample matrix, sample frequency, and EPA-approved methods is presented in the following table:

Analyte Sample Matrix		No. of Samples (per event)	EPA Method	
BTEX	Groundwater	14/15	SW-846 8021/8260	

Groundwater laboratory results are summarized in **Table 1** (**Appendix B**). The laboratory data sheets and executed chain-of-custody form are provided in **Appendix D**.

2.3 Groundwater Flow Direction

Each of the monitoring wells was geospatially surveyed or re-surveyed to determine top-of-casing (TOC) elevations. Apex gauged the depth to fluids in each monitoring well with an interface probe capable of detecting/measuring NAPL. NAPL was not identified at the Site during the 2017 and 2018 sampling events. Based on gauging data, the groundwater flow direction at the Site is generally toward the northwest, with an average gradient of approximately 0.008 feet per foot (ft/ft) across Site.

Groundwater measurements collected during the sampling events are presented with TOC elevations in Table 2 (Appendix B). Groundwater Gradient Maps are included as Figure 4A and Figure 4B (Appendix A).

2.4 Groundwater Data Evaluation

Apex compared BTEX concentrations or laboratory PQLs associated with the groundwater samples collected from the Site monitoring wells during the June 2017 and January 2018 sampling events to the WQCC *GQSs*. The results of the groundwater sample analyses are summarized in **Table 1** of **Appendix B**. Groundwater Quality Standards Exceedance Zone Maps that include the results from the June 2017 and January 2018 sampling events are provided as **Figure 5A** and **Figure 5B** of **Appendix A**.

Monitoring well MW-12 was not sampled during the June and December sampling events due to an obstructed well screen/casing. In addition, monitoring well MW-11 was not sampled during the June 2017 sampling event due to an insufficient volume of water to allow sample collection.

June 2017 Samples Results:

The groundwater samples collected from monitoring wells MW-1 and MW-17 exhibited benzene concentrations of 3,500 microgram per liter (μ g/L) and 130 μ g/L, respectively, which exceed the WQCC GQS of 10 μ g/L. The groundwater samples collected from monitoring wells MW-10 and MW-15 exhibited benzene concentrations of 3.4 μ g/L and 4.1 μ g/L, respectively, which are below the WQCC GQS of 10 μ g/L. The groundwater samples collected from monitoring wells from the remaining monitoring wells did not exhibit benzene concentrations above the laboratory PQLs, which are below the WQCC GQS of 10 μ g/L.



The groundwater sample collected from monitoring well MW-1 exhibited a toluene concentration of 4,200 μ g/L, which exceeds the WQCC GQS of 750 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit toluene concentrations above the laboratory PQLs, which are below the WQCC GQS of 750 μ g/L.

The groundwater samples collected from monitoring wells MW-1 and MW-15 exhibited ethylbenzene concentrations of 180 μ g/L and 4.6 μ g/L, respectively, which are below the WQCC *GQS* of 750 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are below the WQCC *GQS* of 750 μ g/L.

The groundwater samples collected from monitoring wells MW-1 and MW-17 exhibited total xylenes concentrations of 1,800 μ g/L and 950 μ g/L, respectively, which exceed the WQCC GQS of 620 μ g/L. The groundwater sample collected from monitoring well MW-15 exhibited a total xylenes concentration of 89 μ g/L, which is below the WQCC GQS of 620 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit total xylenes concentrations above the laboratory PQLs, which are below the WQCC GQS of 620 μ g/L.

	Data Qualifier Flags					
Sample ID	Data Qualifier Flag	Comments/Reactions				
MW-15 (collected 6/27/2017)	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 surrogate recovery was outside the accepted "high" limit of 153% with a recovery of 140% due to matrix interference.				
MW-1 (collected 6/28/2017)	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 surrogate recovery was slightly outside the accepted "high" limit of 140% with a recovery of 145% due to matrix interference.				
MW-17 (collected 6/28/2017)	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 surrogate recovery was slightly outside the accepted "high" limit of 140% with a recovery of 145% due to matrix interference.				

January 2018 Sample Results:

The groundwater sample collected from monitoring well MW-1 exhibited a benzene concentration of 1,300 μ g/L, which exceeds the WQCC GQS of 10 μ g/L. The groundwater samples collected from monitoring wells MW-15 and MW-17 exhibited benzene concentrations of 4.7 μ g/L and 5.2 μ g/L, respectively, which are below the WQCC GQS of 10 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the laboratory PQLs, which are below the WQCC GQS of 10 μ g/L.

The groundwater samples collected from monitoring wells MW-1 and MW-17 exhibited toluene concentrations of 710 μ g/L and 2.2 μ g/L, which are below the WQCC GQS of 750 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit toluene concentrations above the laboratory PQLs, which are below the WQCC GQS of 750 μ g/L.

The groundwater samples collected from monitoring wells MW-1, MW-6, MW-15, and MW-17 exhibited ethylbenzene concentrations ranging from 1.2 μ g/L (MW-17) to 59 μ g/L (MW-1), which are below the WQCC *GQS* of 750 μ g/L. The groundwater samples collected from the remaining



monitoring wells did not exhibit ethylbenzene concentrations above the laboratory PQLs, which are below the WQCC GQS of 750 μ g/L.

The groundwater samples collected from monitoring wells MW-1, MW-6, MW-15, and MW-17 exhibited total xylenes concentrations ranging from 12 μ g/L (MW-6) to 350 μ g/L (MW-1), which are below the WQCC GQS of 620 μ g/L. The groundwater samples collected from the remaining monitoring wells did not exhibit total xylenes concentrations above the laboratory PQLs, which are below the WQCC GQS of 620 μ g/L.

No data qualifier flags were associated with the January 2018 groundwater analytical results.

3.0 FINDINGS

During June 2017 and January 2018, Apex performed groundwater monitoring events at the Site. The primary objective of the groundwater monitoring events was to further evaluate the concentrations of COCs in groundwater at the Site with respect to WQCC *GQSs*.

- During completion of the June 2017 and January 2018 sampling events, one (1) groundwater sample was collected from each monitoring well utilizing low-flow or bailer sampling techniques. Monitoring well MW-12 was not sampled during either event due to an obstructed screen/casing. Monitoring well MW-11 did not produce a sufficient volume of water to allow for the collection of samples during the June sampling event and was not sampled.
- The groundwater flow direction at the Site is generally toward the northwest, with an average gradient of approximately 0.008 ft/ft across Site.
- During the June 2017 sampling event, the groundwater samples collected from monitoring wells MW-1 and MW-17 exhibited BTEX constituent concentrations above the applicable WQCC GQSs. The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the applicable WQCC GQSs.
- During the January 2018 sampling event, the groundwater sample collected from monitoring well MW-1 exhibited a benzene concentration above the applicable WQCC GQS. The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the applicable WQCC GQSs.
- With the exception of monitoring well MW-1, which has exhibited relatively consistent COC concentrations, results from the sampling events at the Site demonstrate generally declining COC concentrations in groundwater.



4.0 RECOMMENDATIONS

Based on the results of the groundwater monitoring activities, Apex has the following recommendations:

- Report the groundwater monitoring results to the New Mexico EMNRD OCD;
- Continue semi-annual groundwater sampling; and,
- Evaluate insitu remediation as an option to address remaining soil and/or groundwater impact at the Site.

5.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

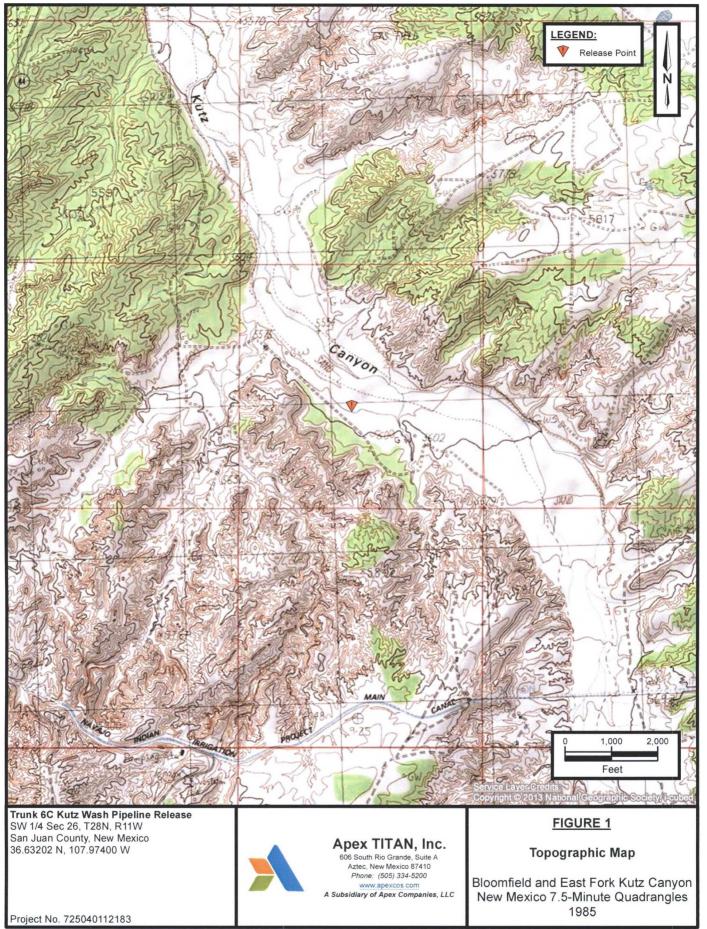
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence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

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

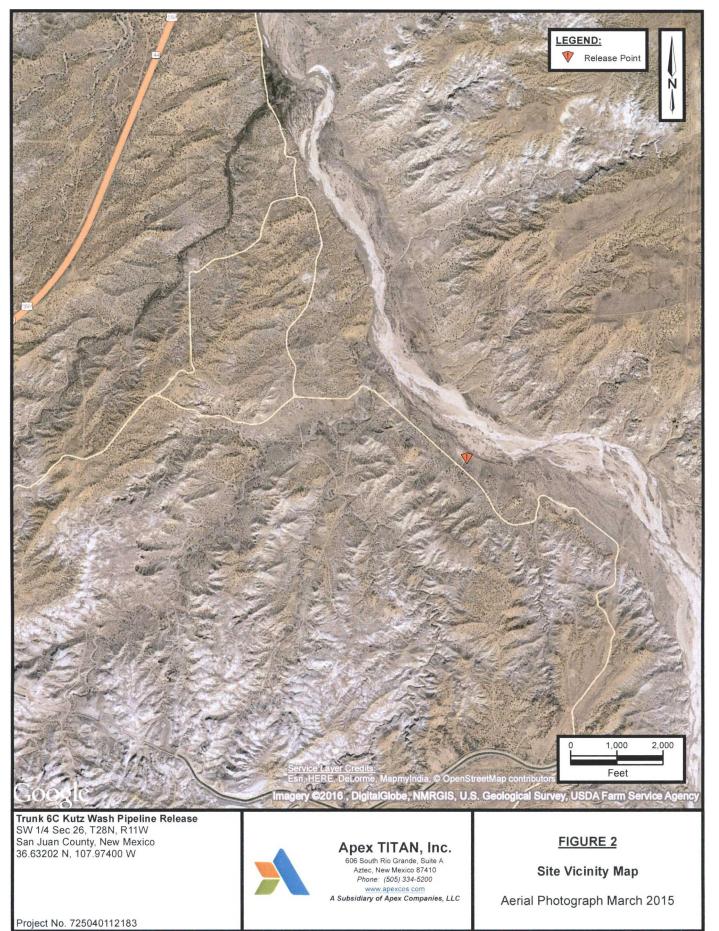


APPENDIX A

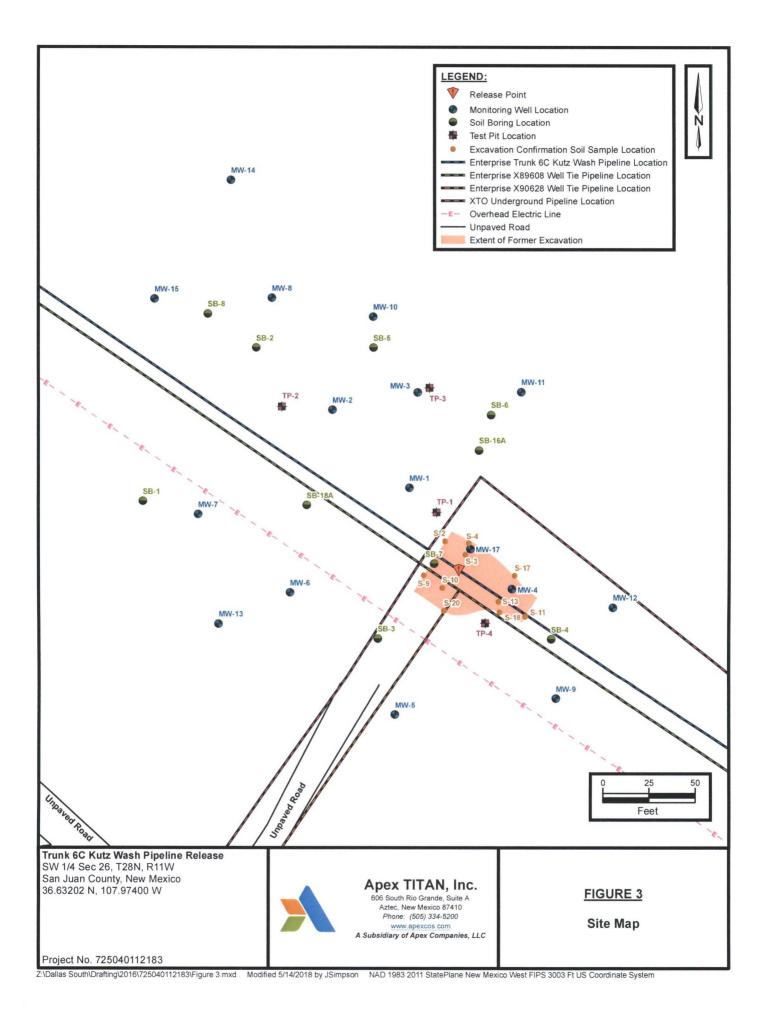
Figures

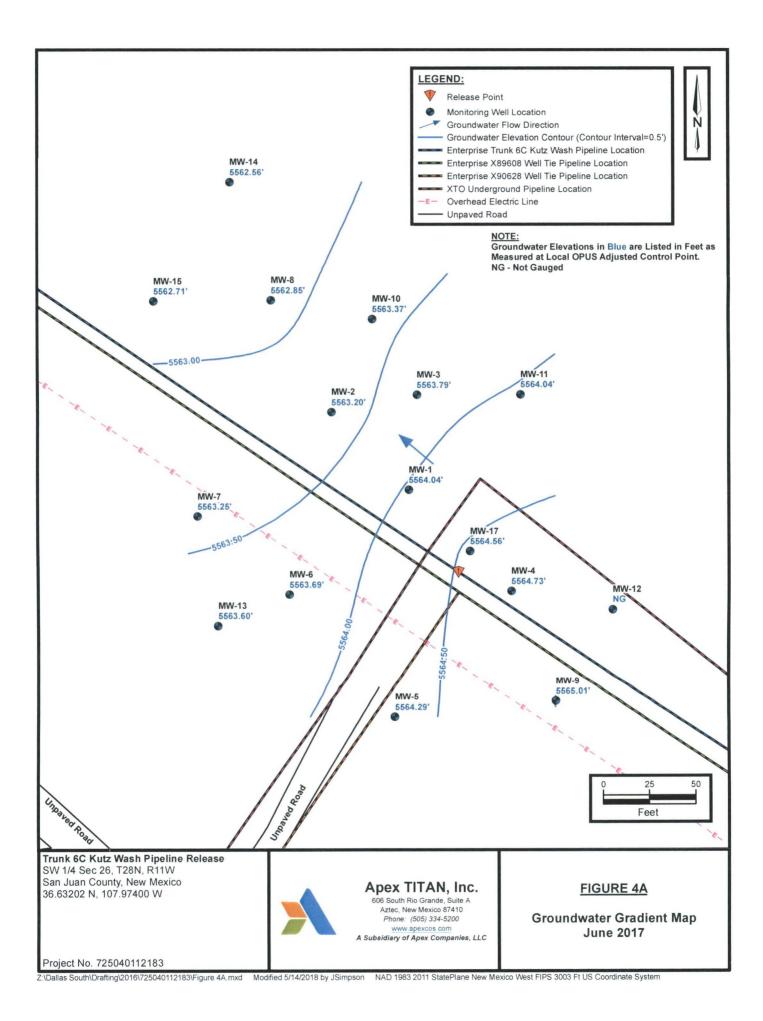


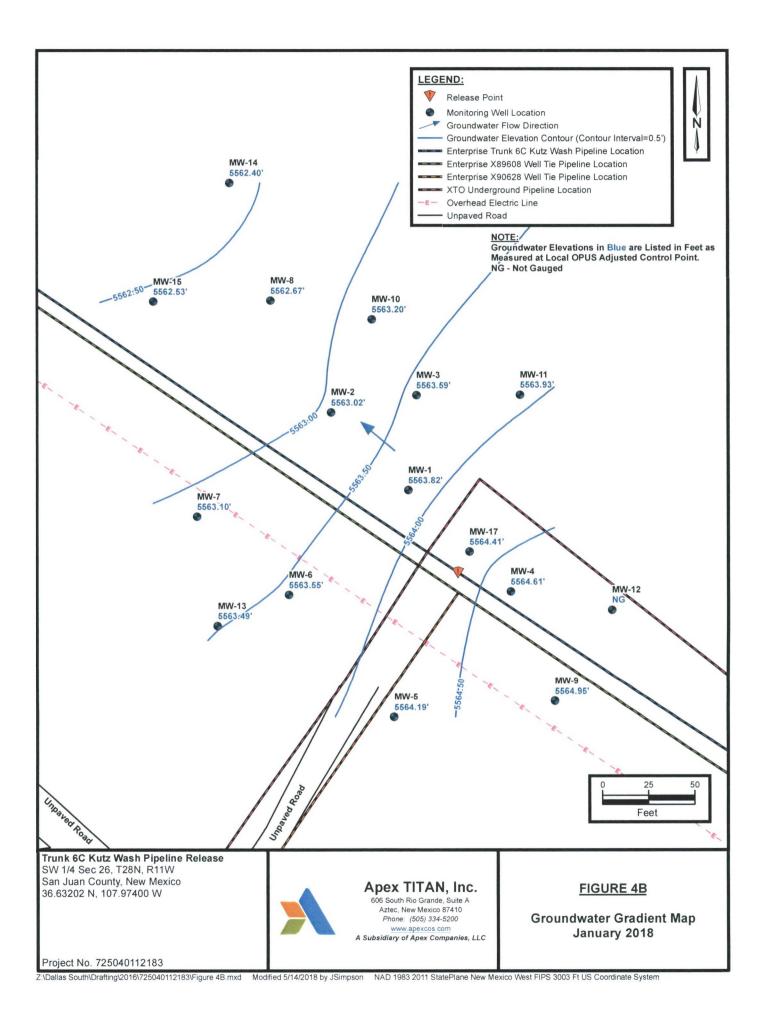
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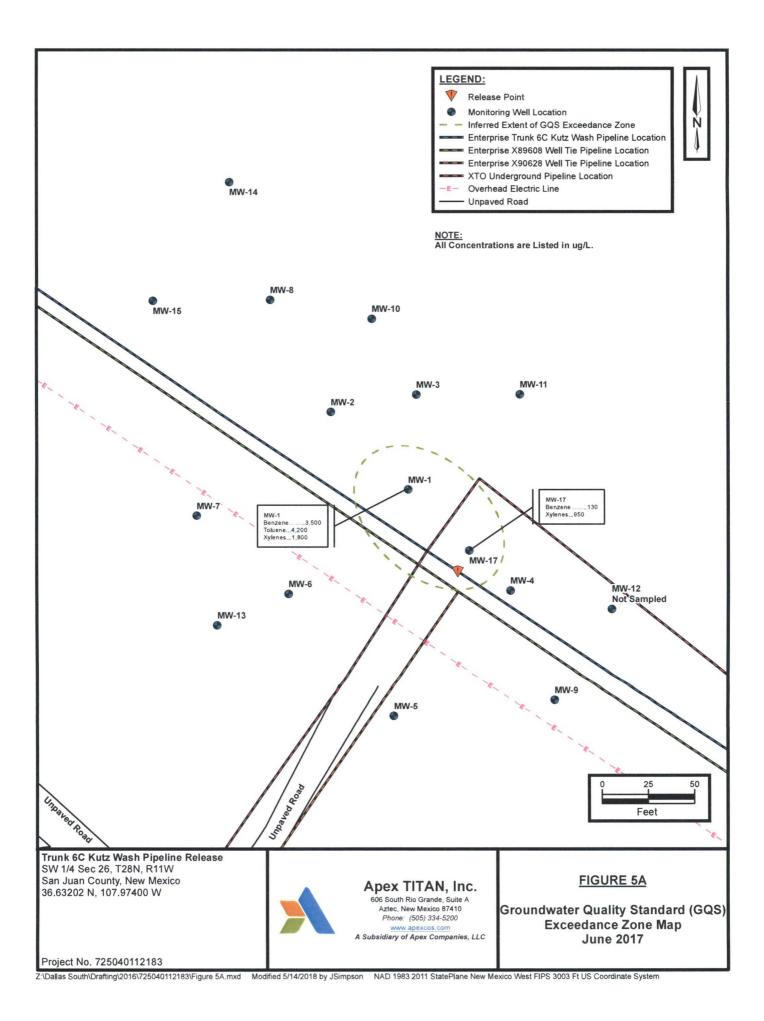


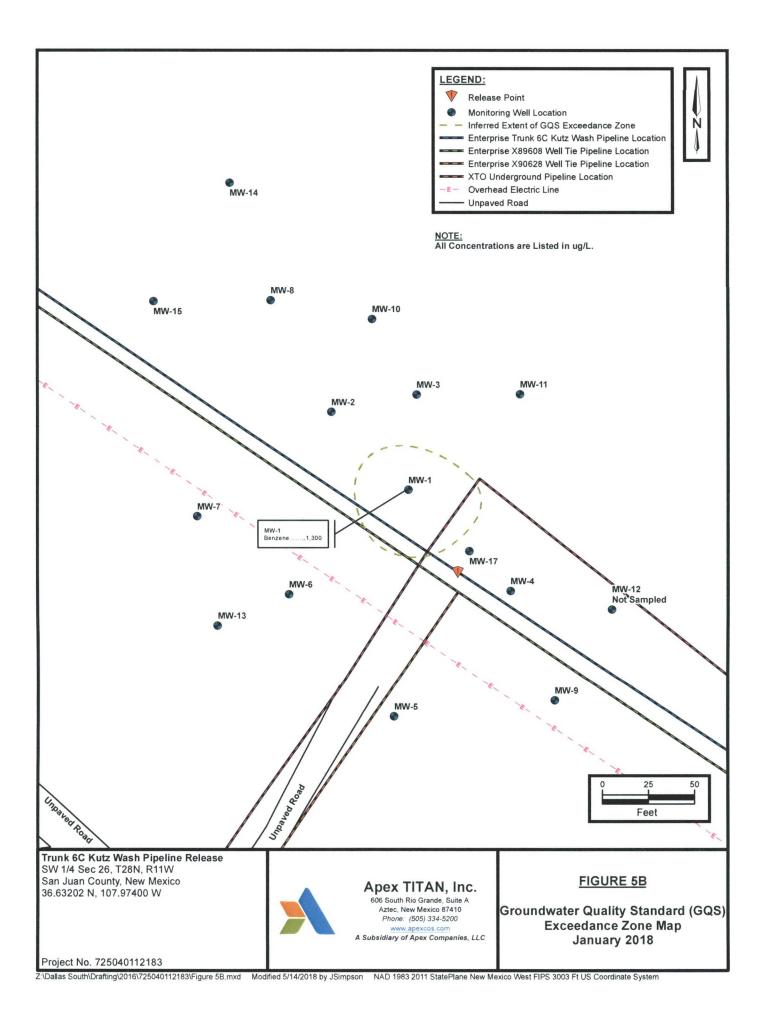
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APPENDIX B

Tables



スピヒス TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY								
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)			
	ntrol Commmission Groundwater Standards	10	750	750	620			
		Monitoring Wells Installe	d by AES					
	9.7.12	2,200	350	68	650			
	12.20.12	1,100	250	37	180			
	3.20.13	NAPL	NAPL	NAPL	NAPL			
	6.19.13	NAPL	NAPL	NAPL	NAPL			
	9.17.13	NAPL	NAPL	NAPL	NAPL			
	12.16.13	NAPL	NAPL	NAPL	NAPL			
MVV-1	3.14.15	NAPL	NAPL	NAPL	NAPL			
	9.9.15	1,900	440	54	400			
	6.15.15	6,900	2,700	170	1,400			
	12.7.15	3,900	1,400	120	870			
	6.02.16	1,400	850	41	330			
	12.20.16	76	59	2.5	23			
	6.28.17	3,500	4,200	180	1,800			
	1.10.18	1,300	710	59	350			
	9.7.12	270	1,100	66	1,800			
	12.20.12	26	49	5.1	250			
	3.20.13	<5.0	<5.0	<5.0	67			
	6.19.13	NAPL	NAPL	NAPL	NAPL			
	9.17.13	NAPL	NAPL	NAPL	NAPL			
	12.16.13	NAPL	NAPL	NAPL	NAPL			
MW-2	3.14.14	1,200	1,600	74	660			
	9.9.14	78	76	2.9	110			
	6.15.15	<1.0	1.1	<1.0	44			
	12.7.15	<1.0	<1.0	<1.0	13			
	6.02.16	<1.0	<1.0	<1.0	<2.0			
	12.19.16	<1.0	<1.0	<1.0	<1.5			
	6.27.17	<1.0	<1.0	<1.0	<2.0			
	1.09.18	<1.0	<1.0	<1.0	<2.0			
	9.7.12	<2.0	<2.0	<2.0	<4.0			
	12.20.12	<2.0	<2.0	<2.0	<4.0			
	3.20.13	<2.0	<2.0	<2.0	<4.0			
	6.19.13	780	130	2.5	15			
	9.18.13	150	28	<5.0	15			
	12.16.13	660	340	16	130			
MW-3	3.14.14	200	86	4.0	49			
	9.9.14	2.5	1.7	<1.0	3.3			
	6.12.15	1.3	<1.0	<1.0	2.2			
	12.7.15	<1.0	<1.0	<1.0	<2.0			
	6.02.16	<1.0	<1.0	<1.0 <1.0	<2.0			
	12.19.16	<1.0	<1.0		<1.5			
	<u>6.28.17</u> 1.09.18	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0			

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APEX	

TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY							
Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)		
	ntrol Commmission Groundwater Standards	10	750	750	620		
	9.7.12	18	5.1	<2.0	<4.0		
	12.20.12	<2.0	<2.0	<2.0	<4.0		
	3.20.13	290	110	<2.0	15		
	6.19.13	600	45	<10	<20		
	9.18.13	830	39	<20	<30		
	12.16.13	300	110	10	63		
	3.14.14	4.0	<1.0	<1.0	<3.0		
MW-4	9.9.14	<2.0	<2.0	<2.0	<4.0		
	6.11.15	<1.0	<1.0	<1.0	<2.0		
	12.4.15	<1.0	<1.0	<1.0	<2.0		
	6.02.16	<1.0	<1.0	<1.0	<2.0		
	12.19.16	<1.0	<1.0	<1.0	<1.5		
	6.28.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		
	9.7.12	<2.0	<2.0	<2.0	<4.0		
	12.20.12	<2.0	<2.0	<2.0	<4.0		
	3.20.13	<2.0	<2.0	<2.0	<4.0		
	6.19.13	<1.0	<1.0	<1.0	<2.0		
	9.17.13	<1.0	<1.0	<1.0	<1.5		
	12.16.13	2.1	4.7	4.0	17		
	3.14.14	<1.0	<1.0	<1.0	<3.0		
MW-5	9.9.14	<1.0	<1.0	<1.0	<2.0		
	6.12.15	<1.0	<1.0	<1.0	<2.0		
	12.4.15	<1.0	<1.0	<1.0	<2.0		
	6.02.16	<1.0	<1.0	<1.0	<2.0		
	12.19.16	<1.0	<1.0	<1.0	<1.5		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		
	9.7.12	<5.0	<5.0	260	2,200		
	12.20.12	<5.0	<5.0	180	1,200		
	3.20.13	<5.0	<5.0	120	800		
	6.19.13	9.6	6.2	150	1,100		
	9.18.13	<5.0	<5.0	180	1,200		
	12.16.13	<5.0	<5.0	140	990		
	3.14.14	<1.0	<1.0	150	990		
MW-6	9.9.14	<5.0	<5.0	49	400		
	6.12.15	<5.0	<5.0	89	590		
	12.4.15	<2.5	<5.0	41	210		
	6.02.16	<1.0	<1.0	16	70		
	12.19.16	<1.0	<1.0	26	80		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	3.6	12		



TAPEX TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY							
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)		
	ntrol Commmission Groundwater Standards	10	750	750	620		
	9.7.12	<2.0	<2.0	<2.0	<4.0		
	12.20.12	<2.0	<2.0	<2.0	2.4		
	3.20.13	<2.0	<2.0	<2.0	<4.0		
	6.19.13	<1.0	<1.0	<1.0	<2.0		
	9.17.13	<1.0	<1.0	<1.0	<1.5		
	12.16.13	1.6	3.9	3.6	16		
NAVA/ 7	3.14.14	<1.0	<1.0	<1.0	<3.0		
MW-7	9.9.14	<1.0	<1.0	<1.0	<2.0		
	6.12.15	<1.0	<1.0	<1.0	<2.0		
	12.7.15	<1.0	<1.0	<1.0	<2.0		
	6.02.16	<1.0	<1.0	<1.0	<2.0		
	12.19.16	<1.0	<1.0	<1.0	<1.5		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		
	9.7.12	41	40	3.8	320		
	12.20.12	<2.0	<2.0	<2.0	20		
	3.20.13	41	36	<2.0	89		
	6.19.13	21	12	<1.0	6.8		
	9.18.13	<1.0	<1.0	3.4	27		
	12.16.13	18	21	5.1	74		
MVV-8	3.14.14	66	190	10	210		
10100-0	9.9.14	NAPL**	NAPL**	NAPL**	NAPL**		
	6.15.15	<1.0	<1.0	<1.0	10		
	12.7.15	1.3	<1.0	<1.0	53		
	6.02.16	4.0	1.6	<1.0	5.1		
	12.19.16	<1.0	<1.0	<1.0	2.1		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		
	9.7.12	<2.0	2.4	<2.0	<4.0		
	12.20.12	<2.0	<2.0	<2.0	<4.0		
	3.20.13	<2.0	<2.0	<2.0	<4.0		
	6.19.13	<1.0	<1.0	<1.0	<2.0		
	9.17.13	<1.0	<1.0	<1.0	<1.5		
	12.16.13	1.5	3.5	2.9	12		
MW-9	3.14.14	<1.0	<1.0	<1.0	<3.0		
	9.9.14	<2.0	<2.0	<2.0	<4.0		
	6.11.15	<1.0	<1.0	<1.0	<2.0		
	12.4.15	<1.0	<1.0	<1.0	<2.0		
	6.02.16	<1.0	<1.0	<1.0	<2.0		
	12.19.16	<1.0	<1.0	<1.0	<1.5		
	6.27.17	<1.0	<1.0	<1.0	<2.0		
	1.09.18	<1.0	<1.0	<1.0	<2.0		

>	
APEX	

		TABLE 1 C Kutz Wash Pip DWATER ANALYTIC			741- 6	
Sample I.D.	Sample Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	
w Mexico Water Quality Control Commmission Groundwater Quality Standards		10	750	750	620	
	12.16.13	950	34	12	39	
	3.14.14	560	4.0	16	27	
	9.9.14	580	<10	34	<20	
	6.15.15	75	<1.0	12	2.9	
MW-10	12.7.15	17	<1.0	2.0	<2.0	
	6.03.16	16	<1.0	<1.0	<2.0	
	12.20.16	4.8	<1.0	<1.0	<1.5	
	6.27.17	3.4	<1.0	<1.0	<2.0	
	1.10.18	<1.0	<1.0	<1.0	<2.0	
	12.16.13	2.6	3.5	<1.0	6	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.12.15	<1.0	<1.0	<1.0	<2.0	
MW-11	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.03.16	<1.0	<1.0	<1.0	<2.0	
	12.20.16	<1.0	<1.0	<1.0	<1.5	
	6.28.17		Insufficient volume o	f water to sample.		
	1.10.18	<1.0	<1.0	<1.0	<2.0	
	12.16.13	3.3	3.8	<1.0	6	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.12.15	Casing Obstruction				
MW-12	12.4.15	Casing Obstruction				
	6.02.16		Casing Ob			
	12.20.16		Casing Ob			
	6.27.17		Casing Ob			
	1.10.18		Casing Ob			
	12.16.13	4.4	5.1	1.2	8	
	3.14.14	<1.0	<1.0	<1.0	<3.0	
	9.9.14	<2.0	<2.0	<2.0	<4.0	
	6.15.15	<1.0	<1.0	<1.0	<2.0	
MW-13	12.4.15	<1.0	<1.0	<1.0	<2.0	
	6.03.16	<1.0	<1.0	<1.0	<2.0	
	12.20.16	<1.0	<1.0	<1.0	<1.5	
	6.27.17	<1.0	<1.0	<1.0	<2.0	
	1.10.18	<1.0	<1.0	<1.0	<2.0	



TABLE 1 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Sample Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
	ntrol Commmission Groundwater Standards	10	750	750	620
		Monitoring Wells Installe	d by APEX		
	9.16.16	<1.0	<1.0	<1.0	<2.0
MW-14	12.20.16	<1.0	<1.0	<1.0	<1.5
10100-14	6.27.17	<1.0	<1.0	<1.0	<2.0
	1.10.18	<1.0	<1.0	<1.0	<2.0
	9.16.16	3.6	<1.0	4.1	43
MW-15	12.20.16	<1.0	<1.0	6.2	87
1010 0-15	6.27.17	4.1	<1.0	4.6	89
	1.10.18	4.7	<1.0	2.8	33
	9.16.16	380	790	33	1,200
MW-17	12.20.16	200	100	11	310
	6.28.17	130	<5.0	<5.0	950
	1.10.18	5.2	2.2	1.2	13

Note: Concentrations in **bold** and yellow exceed the applicable WQCC GQS

µg/L = micrograms per liter

NAPL = Non-aqueous phase liquid

** - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.

<1.0 = the numeral (in this case "1.0") identifies the laboratory RL or PQL



TABLE 2 **Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS TOC Elevations** Well I.D. Product Groundwater Date Depth to Depth to Water Product Thickness **Elevation*** (feet BTOC) (feet BTOC) (feet AMSL) (feet AMSL) ND 5563.95 9.7.12 ND 15.78 12.20.12 ND 15.69 ND 5564.04 3.20.13 15.31 15.73 0.42 5564.31 6.19.13 15.49 15.75 0.26 5564.17 9.17.13 15.79 0.48 5563.81 16.27 5579.73 15.75 0.16 5564.10 12.16.13 15.59 5564.38 3.14.14 15.35 15.36 0.01 MW-1* 9.9.14 15.98 15.99 0.01 5563.75 15.29 6.10.15 15.30 0.01 5564.44 5563.92 12.04.15 ND 15.81 ND 15.41 ND 5564.32 6.02.16 ND 5563.31 16.12 16.13 0.01 9.16.16 15.83 5563.60 12.19.16 ND ND 5579.43 6.27.17 ND 15.39 ND 5564.04 ND 1.09.18 ND 15.61 5563.82 ND ND 9.7.12 16.29 5563.10 12.20.12 ND 16.22 ND 5563.17 15.97 5563.42 3.20.13 ND ND 6.19.13 0.44 15.96 16.40 5563.31 5562.95 16.40 9.17.13 16.54 0.14 5579.39 12.16.13 16.14 16.22 0.08 5563.23 15.89 ND 5563.50 3.14.14 ND MW-2* 5562.89 9.9.14 ND 16.50 ND 6.10.15 ND 15.81 ND 5563.58 12.04.15 ND 16.32 ND 5563.07 6.02.16 ND 15.93 ND 5563.46 ND 16.61 ND 5562.54 9.16.16 12.19.16 ND 16.35 ND 5562.80 5579.15 6.27.17 ND 15.95 ND 5563.20 1.09.18 ND 16.13 ND 5563.02 ND ND 15.98 5563.54 9.7.12 ND 15.79 ND 5563.73 12.20.12 3.20.13 ND 15.50 ND 5564.02 ND 5563.86 6.19.13 ND 15.66 ND 9.18.13 ND 15.96 5563.56 5579.52 ND 12.16.13 ND 15.70 5563.82 ND 3.14.14 ND 15.39 5564.13 MW-3* 9.9.14 ND 16.10 ND 5563.42 6.10.15 ND 15.28 ND 5564.24 12.04.15 ND 15.87 ND 5563.65 ND 15.47 ND 5564.05 6.02.16 9.16.16 ND 16.24 ND 5563.00 12.19.16 ND 15.87 ND 5563.37 5579.24 6.27.17 ND 15.45 ND 5563.79 ND 15.65 ND 5563.59 1.09.18



5563.55

TABLE 2 **Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS** Well I.D. Date Depth to Depth to Water Product **TOC Elevations** Groundwater Product Thickness **Elevation*** (feet BTOC) (feet BTOC) (feet AMSL) (feet AMSL) 5564.77 9.7.12 ND 15.59 ND 12.20.12 ND 15.51 ND 5564.85 3.20.13 ND 15.25 ND 5565.11 ND 15.41 ND 5564.95 6.19.13 ND 15.74 ND 5564.62 9.18.13 5580.36 12.16.13 ND 15.45 ND 5564.91 3.14.14 ND 15.14 ND 5565.22 MW-4* ND 15.80 ND 5564.56 9.9.14 6.10.15 ND 15.06 ND 5565.30 12.04.15 ND 15.56 ND 5564.80 6.02.16 ND 15.22 ND 5565.14 5564.03 9.16.16 ND 15.92 ND 12.19.16 ND 15.55 ND 5564.40 5579.95 6.27.17 ND 15.22 ND 5564.73 1.09.18 ND 15.34 ND 5564.61 9.7.12 5564.18 ND 19.35 ND 19.28 5564.25 12.20.12 ND ND ND 5564.43 3.20.13 ND 19.10 19.21 ND 5564.32 6.19.13 ND 9.17.13 ND 19.55 ND 5563.98 5583.53 12.16.13 ND 19.28 ND 5564.25 3.14.14 ND 19.03 ND 5564.50 MW-5* 9.9.14 ND 19.58 ND 5563.95 ND 18.98 ND 5564.55 6.10.15 ND 19.41 ND 5564.12 12.04.15 6.02.16 ND 19.08 ND 5564.45 19.69 ND 9.16.16 ND 5563.72 12.19.16 ND 19.42 ND 5563.99 5583.41 ND 19.12 ND 5564.29 6.27.17 1 00 19 10.22 ND 5564.19

		1.09.18	ND	19.22	ND		5564.19
		9.7.12	ND	18.55	ND		5563.67
		12.20.12	ND	18.49	ND		5563.73
		3.20.13	ND	18.27	ND		5563.95
		6.19.13	ND	18.38	ND		5563.84
		9.18.13	ND	18.74	ND		5563.48
		12.16.13	ND	18.46	ND	5582.22	5563.76
	MW-6*	3.14.14	ND	18.21	ND		5564.01
		9.9.14	ND	18.75	ND		5563.47
		6.10.15	ND	18.16	ND		5564.06
		12.04.15	ND	18.60	ND		5563.62
		6.02.16	ND	18.25	ND		5563.97
		9.16.16	ND	18.86	ND		5563.12
		12.19.16	ND	18.61	ND	5581.98	5563.37
		6.27.17	ND	18.29	ND	5561.96	5563.69
		and the second se		10.10			

18.43

ND

1.09.18

ND



5582.35

5565.01

5564.95

TABLE 2 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS Well I.D. Date Depth to **Depth to Water** Product **TOC Elevations** Groundwater Product Thickness **Elevation*** (feet BTOC) (feet BTOC) (feet AMSL) (feet AMSL) 9.7.12 ND 19.03 ND 5563.21 12.20.12 ND 18.97 ND 5563.27 3.20.13 ND 18.79 ND 5563.45 6.19.13 ND 18.87 ND 5563.37 9.17.13 ND 19.22 ND 5563.02 5582.24 12.16.13 ND 18.46 ND 5563.78 3.14.14 ND 18.73 ND 5563.51 MW-7* 9.9.14 ND 19.24 ND 5563.00 6.10.15 ND 18.65 ND 5563.59 12.04.15 ND 19.10 ND 5563.14 5563.48 6.02.16 ND 18.76 ND 19.37 9.16.16 ND ND 5562.68 12.19.16 ND 19.13 ND 5562.92 5582.05 6.27.17 ND 18.80 ND 5563.25 1.09.18 ND 18.95 ND 5563.10 9.7.12 ND 14.96 ND 5562.85 12.20.12 ND 14.87 ND 5562.94 3.20.13 ND 14.63 ND 5563.18 5563.07 6.19.13 ND 14.74 ND ND 15.08 ND 5562.73 9.18.13 5577.81 12.16.13 ND 14.81 ND 5563.00 3.14.14 ND 14.53 ND 5563.28 MW-8* 9.9.14** 15.12** 15.25 0.13** 5562.65 ND 14.44 6.10.15 ND 5563.37 14.97 12.04.15 ND ND 5562.84 6.02.16 ND 14.61 ND 5563.20 9.16.16 ND 15.29 ND 5562.18 12.19.16 ND 15.00 ND 5562.47 5577.47 6.27.17 ND 14.62 ND 5562.85 1.09.18 ND 14.80 ND 5562.67 17.55 ND ND 5564.93 9.7.12 ND 12.20.12 ND 17.47 5565.01 5565.20 ND 17.28 ND 3.20.13 6.19.13 ND 17.42 ND 5565.06 9.17.13 ND 17.74 ND 5564.74 5582.48 12.16.13 ND 17.48 ND 5565.00 3.14.14 ND 17.21 ND 5565.27 MW-9* 9.9.14 ND 17.83 ND 5564.65 6.10.15 ND 17.18 ND 5565.30 12.04.15 ND 17.61 ND 5564.87 6.02.16 ND 17.30 ND 5565.18 9.16.16 ND 17.94 ND 5564.41 12.19.16 ND 17.60 ND 5564.75

17.34

17.40

ND

ND

6.27.17

1.09.18

ND

ND



TABLE 2 **Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS TOC Elevations** Well I.D. Depth to **Depth to Water** Product Groundwater Date Product Thickness **Elevation*** (feet BTOC) (feet BTOC) (feet AMSL) (feet AMSL) 12.16.13 ND 5560.87 ND 16.93 3.14.14 ND 14.63 ND 5563.17 9.9.14 ND 15.34 ND 5562.46 5577.80 6.10.15 ND ND 5563.22 14.58 12.04.15 ND 15.10 ND 5562.70 MW-10* 6.02.16 ND 14.74 ND 5563.06 15.49 ND ND 5562.61 9.16.16 12.19.16 15.12 ND 5562.98 ND 5578.10 ND 14.73 ND 5563.37 6.27.17 ND 14.90 1.09.18 ND 5563.20 ND ND 12.16.13 15.15 5563.50 3.14.14 ND 14.82 ND 5563.83 9.9.14 ND 15.63 ND 5563.02 5578.65 5563.89 6.10.15 ND 14.76 ND 12.04.15 15.35 ND 5563.30 ND MW-11* 6.02.16 14.98 ND ND 5563.67 15.74 ND 5563.30 9.16.16 ND 15.35 12.19.16 ND ND 5563.69 5579.04 6.27.17 15.00 ND ND 5564.04 1.09.18 ND 15.11 ND 5563.93 ND ND 12.16.13 15.54 5564.45 ND 3.14.14 ND 15.27 5564.72 ND 15.96 ND 9.9.14 5564.03 5579.99 6.10.15 ND 15.22 ND 5564.77 12.04.15 NG NG NG NG MW-12* 6.02.16 NG NG NG NG 9.16.16 NG NG NG NG 12.19.16 NG NG NG NG 5580.28 6.27.17 NG NG NG NG 1.09.18 NG NG NG NG ND 5563.15 12.16.13 ND 19.88 3.14.14 ND 19.63 ND 5563.40 9.9.14 ND 20.18 ND 5562.85 5583.03 6.10.15 ND 19.57 ND 5563.46 12.04.15 ND 20.01 ND 5563.02 MW-13* 6.02.16 ND 19.67 ND 5563.36 9.16.16 ND 20.27 ND 5563.07 12.19.16 ND 20.03 ND 5563.31 5583.34 6.27.17 ND 5563.60 ND 19.74 5563.49 1.09.18 ND 19.85 ND 9.16.16 ND 14.48 ND 5561.91 12.19.16 ND 14.18 ND 5562.21 MW-14 5576.39 6.27.17 ND 13.83 ND 5562.56 1.09.18 ND 13.99 ND 5562.40



TABLE 2 Trunk 6C Kutz Wash Pipeline Release GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation* (feet AMSL)
	9.16.16	ND	16.75	ND		5562.08
MW-15	12.19.16	ND	16.48	ND	5578.83	5562.35
	6.27.17	ND	16.12	ND	5576.65	5562.71
	1.09.18	ND	16.30	ND		5562.53
MW-17	9.16.16	ND	16.02	ND		5563.84
	12.19.16	ND	15.68	ND	5579.86	5564.18
	6.27.17	ND	15.30	ND	5579.00	5564.56
	1.09.18	ND	15.45	ND		5564.41

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

NG - Well not gauged, or Errant Gauge.

* - Monitoring wells resurveyed during September 2016

** - Field personnel recorded the presence of NAPL utilizing an interface probe, but the product was not visually verified.

NA - not applicable



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: <u>www.hallenvironmental.com</u>

July 14, 2017

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

OrderNo.: 1706G19

Dear Kyle Summers:

RE: Trunk 6C

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/29/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 13, 2017.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.					Date Reported: 7/14/2017			
CLIENT:APEX TITANProject:Trunk 6C				Lab C	order: 1706G	19		
Lab ID: 1706G19-001			Collection I	Date: 6/2	27/2017 10:20:00 A	M		
Client Sample ID: MW-9			Ma	trix:				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID		
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB		
Benzene	ND	1.0	µg/L	1	7/5/2017 2:28:33 PM	1 B43994		
Toluene	ND	1.0	µg/L	1	7/5/2017 2:28:33 PM	B43994		
Ethylbenzene	ND	1.0	µg/L	1	7/5/2017 2:28:33 PM	B43994		
Xylenes, Total	ND	2.0	µg/L	1	7/5/2017 2:28:33 PM	B43994		
Surr: 4-Bromofluorobenzene	127	72.5-140	%Rec	1	7/5/2017 2:28:33 PM	B43994		
Lab ID: 1706G19-002			Collection I	Date: 6/2	27/2017 11:00:00 A	M		
Client Sample ID: MW-5			Ma	atrix:				
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID		
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB		
Benzene	ND	1.0	µg/L	1	7/5/2017 2:52:41 PM	1 B43994		
Toluene	ND	1.0	µg/L	1	7/5/2017 2:52:41 PM	B43994		
Ethylbenzene	ND	1.0	µg/L	1	7/5/2017 2:52:41 PM	B43994		
Xylenes, Total	ND	2.0	µg/L	1	7/5/2017 2:52:41 PM	B43994		
Surr: 4-Bromofluorobenzene	128	72.5-140	%Rec	1	7/5/2017 2:52:41 PM	1 B43994		
Lab ID: 1706G19-003			Collection 1	Date: 6/2	27/2017 11:40:00 A	M		
Client Sample ID: MW-6	Matrix:							
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch ID		
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB		
Benzene	ND	1.0	µg/L	1	7/5/2017 3:16:50 PM	1 B43994		
Toluene	ND	1.0	μg/L	1	7/5/2017 3:16:50 PM	1 B43994		
Ethylbenzene	ND	1.0	μg/L	1	7/5/2017 3:16:50 PM	1 B43994		
Xylenes, Total	ND	2.0	µg/L	1	7/5/2017 3:16:50 PM	1 B43994		
						A B43994		

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

Qualifiers:

*

- 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

Value exceeds Maximum Contaminant Level.

- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- J Analyte detected below quantitation limits Page 1 of 6

Analytical Report Lab Order: 1706G19

- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.					Date Reported: 7/14/2017			
CLIENT: Project:	APEX TITAN Trunk 6C	I)rder: 1706G1	9	
Lab ID:	1706G19-004			Collection I	Date: 6/2	27/2017 11:50:00 AN	N	
Client Sample I	D: MW-13			Ma	trix:			
Analyses		Result	PQL (Qual Units	DF	Date Analyzed	Batch ID	
EPA METHOD 8021B: VOLATILES						Analy	/st: NSB	
Benzene		ND	1.0	µg/L	1	7/5/2017 3:40:56 PM	B43994	
Toluene		ND	1.0	μg/L	1	7/5/2017 3:40:56 PM	B43994	
Ethylbenzene		ND	1.0	μg/L	1	7/5/2017 3:40:56 PM		
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 3:40:56 PM	B43994	
Surr: 4-Brom	ofluorobenzene	127	72.5-140	%Rec	1	7/5/2017 3:40:56 PM	B43994	
Lab ID:	1706G19-005			Collection I	Date: 6/2	27/2017 11:30:00 AN	M	
Client Sample I	D: MW-7	Matrix:						
Analyses		Result	PQL (Qual Units	DF	Date Analyzed	Batch ID	
EPA METHOD	8021B: VOLATILES					Analy	yst: NSB	
Benzene		ND	1.0	µg/L	1	7/5/2017 8:05:49 PM	B43994	
Toluene		ND	1.0	µg/L	1	7/5/2017 8:05:49 PM	B43994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 8:05:49 PM	B43994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 8:05:49 PM	B43994	
Surr: 4-Brom	ofluorobenzene	131	72.5-140	%Rec	1	7/5/2017 8:05:49 PM	B43994	
Lab ID:	1706G19-006		the and the second s	Collection I	Date: 6/2	27/2017 12:10:00 PM	N	
Client Sample I	D: MW-15	Matrix:						
Analyses		Result	PQL (Qual Units	DF	Date Analyzed	Batch ID	
EPA METHOD	8021B: VOLATILES					Analy	yst: NSB	
Benzene		4.1	1.0	µg/L	1	7/5/2017 8:29:48 PM	B43994	
Toluene		ND	1.0	μg/L	1	7/5/2017 8:29:48 PM	B43994	
Ethylbenzene		4.6	1.0	µg/L	1	7/5/2017 8:29:48 PM	B43994	
Xylenes, Total		89	2.0	µg/L	1	7/5/2017 8:29:48 PM	B43994	
Surr: 4-Brom	ofluorobenzene	153	72.5-140	S %Rec	1	7/5/2017 8:29:48 PN	B43994	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 1706G19

Date Reported: 7/14/2017

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 Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.					Date Reported: 7/14/2017			
	APEX TITAN Frunk 6C				Lab Ore	der: 1706G1	9	
Lab ID:	1706G19-007			Collection I	Date: 6/27/	/2017 1:00:00 PM		
Client Sample ID:	MW-14			Ma	trix:			
Analyses		Result	PQL Qu	al Units	DF D	Date Analyzed	Batch ID	
EPA METHOD 8021B: VOLATILES						Analy	st: NSB	
Benzene		ND	1.0	µg/L	1	7/5/2017 8:53:46 PM	B43994	
Toluene		ND	1.0	µg/L	1	7/5/2017 8:53:46 PM	B43994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 8:53:46 PM	B43994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 8:53:46 PM	B43994	
Surr: 4-Bromoflu	orobenzene	131	72.5-140	%Rec	1	7/5/2017 8:53:46 PM	B43994	
Lab ID:	1706G19-008			Collection I	Date: 6/27	/2017 1:50:00 PM		
Client Sample ID:	MW-8			Ma	atrix:			
Analyses		Result	PQL Qu	al Units	DF I	Date Analyzed	Batch ID	
EPA METHOD 8021B: VOLATILES						Analy	st: NSB	
Benzene		ND	1.0	µg/L	1	7/5/2017 9:17:39 PM	B43994	
Toluene		ND	1.0	µg/L	1	7/5/2017 9:17:39 PM	B43994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 9:17:39 PM	B43994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 9:17:39 PM	B43994	
Surr: 4-Bromoflu	orobenzene	131	72.5-140	%Rec	1	7/5/2017 9:17:39 PM	B43994	
Lab ID:	1706G19-009		6	Collection I	Date: 6/27	/2017 2:40:00 PM		
Client Sample ID:	MW-2	Matrix:						
Analyses		Result	PQL Qu	al Units	DF I	Date Analyzed	Batch ID	
EPA METHOD 8021B: VOLATILES						Analy	st: NSB	
Benzene		ND	1.0	µg/L	1	7/5/2017 9:41:36 PM	B43994	
Toluene		ND	1.0	µg/L	1	7/5/2017 9:41:36 PM	B43994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 9:41:36 PM	B43994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 9:41:36 PM	B43994	
Surr: 4-Bromoflu	orobenzene	130	72.5-140	%Rec	1	7/5/2017 9:41:36 PM	B43994	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: 1706G19

Date Reported: 7/14/2017

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 Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.					D	Date Reported: 7/14/2017			
	PEX TITAN runk 6C				Lab O	rder: 1706	G19		
Lab ID:	1706G19-010			Collection	Date: 6/2	7/2017 3:15:00 P	M		
Client Sample ID:	MW-10			N	latrix:				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	ı ID	
EPA METHOD 802	1B: VOLATILES					An	alyst: NS	SB	
Benzene		3.4	1.0	µg/L	1	7/5/2017 10:05:27	PM B4	13994	
Toluene		ND	1.0	µg/L	1	7/5/2017 10:05:27	PM B4	13994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 10:05:27	PM B4	13994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 10:05:27	PM B4	13994	
Surr: 4-Bromofluc	probenzene	129	72.5-140	%Rec	1	7/5/2017 10:05:27	PM B4	43994	
Lab ID:	1706G19-011	an an an an Charlon an Anna an Anna Anna Anna Anna Anna A		Collection	Date: 6/2	8/2017 8:50:00 A	M		
Client Sample ID:	MW-3			N	latrix:				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	ı ID	
EPA METHOD 802	1B: VOLATILES					Ar	alyst: NS	SB	
Benzene		ND	1.0	µg/L	1	7/5/2017 10:29:22	PM B4	43994	
Toluene		ND	1.0	μg/L	1	7/5/2017 10:29:22		43994	
Ethylbenzene		ND	1.0	µg/L	1	7/5/2017 10:29:22	PM B4	43994	
Xylenes, Total		ND	2.0	µg/L	1	7/5/2017 10:29:22	PM B4	43994	
Surr: 4-Bromofluc	probenzene	130	72.5-140	%Rec	1	7/5/2017 10:29:22	PM B4	43994	
Lab ID:	1706G19-012			Collection	Date: 6/2	.8/2017 9:40:00 A	M		
Client Sample ID:	MW-1			\mathbf{N}	latrix:				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch	ı ID	
EPA METHOD 802	1B: VOLATILES					Ar	alyst: NS	SB	
Benzene		3500	50	µg/L	50	7/6/2017 9:27:11	AM B4	44019	
Toluene		4200	50	µg/L	50	7/6/2017 9:27:11	AM B4	44019	
Ethylbenzene		180	50	µg/L	50	7/6/2017 9:27:11	AM B4	44019	
Xylenes, Total		1800	100	µg/L	50	7/6/2017 9:27:11	AM B4	44019	

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Lab Order: 1706G19

Analytical Report

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J Page 4 of 6
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

	APEX TITAN Frunk 6C				Lab Order: 1706G19
Lab ID:	1706G19-013			Collection I	Date: 6/28/2017 10:20:00 AM
Client Sample ID:	MW-17			Ma	trix:
Analyses		Result	PQL Qu	al Units	DF Date Analyzed Batch ID
EPA METHOD 802	21B: VOLATILES				Analyst: NSB
Benzene		130	5.0	µg/L	5 7/6/2017 11:02:56 AM B4401
Toluene		ND	5.0	µg/L	5 7/6/2017 11:02:56 AM B4401
Ethylbenzene		ND	5.0	µg/L	5 7/6/2017 11:02:56 AM B4401
Xylenes, Total		950	10	µg/L	5 7/6/2017 11:02:56 AM B4401
Surr: 4-Bromoflu	uorobenzene	145	72.5-140	S %Rec	5 7/6/2017 11:02:56 AM B4401
Lab ID:	1706G19-014			Collection I	Date: 6/28/2017 11:00:00 AM
Client Sample ID:	MW-04			Ma	itrix:
Analyses		Result	PQL Qu	al Units	DF Date Analyzed Batch ID
EPA METHOD 80	21B: VOLATILES				Analyst: NSB
Benzene		ND	1.0	µg/L	1 7/5/2017 11:41:03 PM B4399
Toluene		ND	1.0	µg/L	1 7/5/2017 11:41:03 PM B4399
Ethylbenzene		ND	1.0	µg/L	1 7/5/2017 11:41:03 PM B4399
Xylenes, Total		ND	2.0	µg/L	1 7/5/2017 11:41:03 PM B4399
Surr: 4-Bromoflu	uorobenzene	133	72.5-140	%Rec	1 7/5/2017 11:41:03 PM B4399

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: 1706G19

Date Reported: 7/14/2017

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 Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

APEX TITAN **Client:** Trunk 6C **Project:**

Project:				and the second se	the second statement of the se			the second se			
Sample ID	RB	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBW	Batch I	D: B4	3994	R	unNo: 4	3994				
Prep Date:		Analysis Da	te: 7/	5/2017	S	eqNo: 1	387447	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-Brom	ofluorobenzene	25		20.00		126	72.5	140			
Sample ID	100NG BTEX LCS	SampTy	pe: LC	s	Tes	Code: El	PA Method	8021B: Volat	iles		
Client ID:	LCSW	Batch	D: B4	3994	R	unNo: 4	3994				
Prep Date:		Analysis Da	te: 7	5/2017	S	eqNo: 1	387448	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	71.7	126			
Toluene		21	1.0	20.00	0	107	73.3	119			
Ethylbenzene		21	1.0	20.00	0	106	80	120			
		0.4	2.0	60.00	0	107	80	120			
,		64	2.0	00.00	0						
Xylenes, Total	nofluorobenzene	64 24	2.0	20.00		122	72.5	140			
Xylenes, Total				20.00		122	72.5	140 8021B: Volat	iles		
Xylenes, Total Surr: 4-Brom	RB	24	pe: MI	20.00	Tes	122	72.5 PA Method		iles		
Xylenes, Total Surr: 4-Brom Sample ID	RB	24 SampTy	pe: MI ID: B4	20.00 BLK 14019	Tes	122 tCode: El	72.5 PA Method 4019		iles		
Xylenes, Total Surr: 4-Brom Sample ID Client ID:	RB	24 SampTy Batch	pe: MI ID: B4	20.00 BLK 14019 /6/2017	Tes	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021B: Volat	iles %RPD	RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	RB	24 SampTy Batch Analysis Da	pe: MI ID: B4 te: 7	20.00 BLK 14019 /6/2017	Tes F S	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021Β: Volat Units: μg/L		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	RB	24 SampTy Batch Analysis Da Result	pe: MI ID: B4 te: 7 PQL	20.00 BLK 14019 /6/2017	Tes F S	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021Β: Volat Units: μg/L		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	RB	24 SampTy Batch Analysis Da Result ND	pe: MI D: B4 te: 7 PQL 1.0	20.00 BLK 14019 /6/2017	Tes F S	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021Β: Volat Units: μg/L		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	RB	24 SampTy Batch Analysis Da Result ND ND	pe: MI ID: B4 te: 7 PQL 1.0 1.0	20.00 BLK 14019 /6/2017	Tes F S	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021Β: Volat Units: μg/L		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	RB	24 SampTy Batch Analysis Da Result ND ND ND	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0	20.00 BLK 14019 /6/2017	Tes F S	122 tCode: El RunNo: 4 GeqNo: 1	72.5 PA Method 4019 388748	8021Β: Volat Units: μg/L		RPDLimit	Qual
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	RB PBW	24 SampTy Batch Analysis Da Result ND ND ND ND 28	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0 2.0	20.00 BLK 44019 /6/2017 SPK value 20.00	Tes F SPK Ref Val	122 tCode: El tunNo: 4 ieqNo: 1 %REC 140	72.5 PA Method 4019 388748 LowLimit 72.5	8021Β: Volat Units: μg/L HighLimit	%RPD	RPDLimit	
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	RB PBW	24 SampTy Batch Analysis Da Result ND ND ND ND 28	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 2.0 pe: LC	20.00 BLK H4019 Y6/2017 SPK value 20.00	Tes F SPK Ref Val	122 tCode: El tunNo: 4 ieqNo: 1 %REC 140	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method	8021Β: Volat Units: μg/L HighLimit 140	%RPD	RPDLimit	
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND ND 28 SampTy	pe: MI ID: B4 te: 7, 1.0 1.0 1.0 2.0 pe: L0	20.00 BLK 14019 76/2017 SPK value 20.00 25 14019	Tes F SPK Ref Val Tes F	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019	8021Β: Volat Units: μg/L HighLimit 140	%RPD	RPDLimit	
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND 28 SampTy Batch Analysis Da Result	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0 2.0 pe: LC ID: B4 te: 7/ PQL	20.00 BLK H4019 K6/2017 SPK value 20.00 CS H4019 K6/2017 SPK value	Tes SPK Ref Val Tes SPK Ref Val	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El RunNo: 4 SeqNo: 1 %REC	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019 388749 LowLimit	8021B: Volat Units: μg/L HighLimit 140 8021B: Volat Units: μg/L HighLimit	%RPD	RPDLimit	
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND 28 SampTy Batch Analysis Da Result 21	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0 2.0 pe: LC ID: B4 te: 7/ PQL 1.0	20.00 BLK H4019 K6/2017 SPK value 20.00 CS H4019 K6/2017 SPK value 20.00	Tes SPK Ref Val Tes SPK Ref Val SPK Ref Val 0	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El RunNo: 4 SeqNo: 1 %REC 107	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019 388749 LowLimit 71.7	8021B: Volat Units: µg/L HighLimit 140 8021B: Volat Units: µg/L HighLimit 126	%RPD		S
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND 28 SampTy Batch Analysis Da Result	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0 2.0 pe: LC ID: B4 te: 7/ PQL	20.00 BLK H4019 K6/2017 SPK value 20.00 CS H4019 K6/2017 SPK value	Tes SPK Ref Val Tes SPK Ref Val	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El RunNo: 4 SeqNo: 1 %REC	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019 388749 LowLimit 71.7 73.3	8021B: Volat Units: µg/L HighLimit 140 8021B: Volat Units: µg/L HighLimit 126 119	%RPD		S
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND 28 SampTy Batch Analysis Da Result 21	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 1.0 2.0 pe: LC ID: B4 te: 7/ PQL 1.0	20.00 BLK H4019 K6/2017 SPK value 20.00 CS H4019 K6/2017 SPK value 20.00	Tes SPK Ref Val Tes SPK Ref Val SPK Ref Val 0	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El RunNo: 4 SeqNo: 1 %REC 107	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019 388749 LowLimit 71.7	8021B: Volat Units: µg/L HighLimit 140 8021B: Volat Units: µg/L HighLimit 126	%RPD		S
Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	RB PBW nofluorobenzene 100NG BTEX LCS	24 SampTy Batch Analysis Da Result ND ND ND 28 SampTy Batch Analysis Da Result 21 21	pe: MI ID: B4 te: 7/ PQL 1.0 1.0 2.0 pe: LC De: B4 te: 7/ PQL 1.0 1.0	20.00 BLK I4019 /6/2017 SPK value 20.00 25 I4019 /6/2017 SPK value 20.00 20.00	Tes SPK Ref Val	122 Code: El RunNo: 4 SeqNo: 1 %REC 140 tCode: El RunNo: 4 SeqNo: 1 %REC 107 107	72.5 PA Method 4019 388748 LowLimit 72.5 PA Method 4019 388749 LowLimit 71.7 73.3	8021B: Volat Units: µg/L HighLimit 140 8021B: Volat Units: µg/L HighLimit 126 119	%RPD		S

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В Е

Value above quantitation range

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 6

WO#: 1706G19

14-Jul-17

ANAL	RONMENTA YSIS RATORY	TEL	Albuq : 505-345-3975 F /ebsite: www.hall	Merque FAX: 50		Sam	ple Log-In Check List
Client Name:	APEX AZTE	C Work (Order Number:	17060	319		RcptNo: 1
Received By:	Anne Thor	ne 6/29/201	7 7:30:00 AM		6	Anne Arm	-
Completed By:	Sophia Car	npuzano 6/30/201	7 11:19:13 AM			Sopha Company	-
Reviewed By:	a.	3 6130	117				
Chain of Cus	stody						
1. Custody sea	als intact on sa	mple bottles?		Yes		No 🗌	Not Present 🗹
2. Is Chain of	Custody compl	ete?		Yes	\checkmark	No 🗌	Not Present
3. How was th	e sample deliv	ered?		<u>Couri</u>	er		
<u>Log in</u>							
4. Was an att	empt made to o	cool the samples?		Yes		No 🗌	
5. Were all sa	mples received	at a temperature of >0° C	to 6.0°C	Yes		No 🗆	
6. Sample(s)	in proper conta	iner(s)?		Yes		No 🗌	
7. Sufficient sa	ample volume f	or indicated test(s)?		Yes		No 🗌	
8. Are sample:	s (except VOA	and ONG) properly preserv	red?	Yes	\checkmark	No 🗌	
9. Was preser	vative added to	bottles?		Yes		No 🗹	NA 🗆
10. VOA vials h	ave zero heads	space?		Yes		No 🗌	No VOA Vials
11, Were any s	ample containe	ars received broken?		Yes		No 🗹	# of preserved bottles checked
12. Does paper (Note discre	work match bo			Yes		No 🗌	for pH: (<2 or >12 unless note
13. Are matrice	s correctly iden	tified on Chain of Custody?	•	Yes	\checkmark	No 🗌	Adjusted?
14. Is it clear wi	hat analyses w	ere requested?		Yes	\checkmark	No 🗌	
15. Were all hol (If no, notify	lding times able customer for a			Yes		No 🗌	Checked by:
Special Hand	lling (if ann	lieshla					
		screpancies with this order		Yes	-	N- []	
		screpancies with this order		res		No 🗌	NA 🗹
	n Notified:	- and a state of the second second state of the second second second second second second second second second	Date			— -	
By WI	2		Via:] eMa	nl∐ Phoi	ne 📋 Fax	
Regar	2			16.40-16.10.16.16.16	ibibe, commentant concernances	lako militzana jako mataz di da	NAME AND DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF
17. Additional r	Instructions:						
18. Cooler Info	ormation		I				
Cooler N		Condition Seal Intact	Seal No S	eal Da	te Sig	gned By	
11	1.0	Good Yes					

				,	CHAIN OF CUSTODY RECORD
X	1	I Gol	ANALYSIS REQUESTED	TTTT	Lab use only Due Date:
	Laboratory: Mo	ell Env			
APEX ,	Laboratory: <u>Ma</u> Address: <u>A</u> BC	pm	_ / /		Temp, of coolers
Office Location Aztec Nm					Temp. of coolers when received (C*): /.6
	Contact: A P,	renan	2		1 2 3 4 5
	Phone:		/ /		Pageof
Project Manager K Sumpers	PO/SO #:				
Sampler's Name	Sampler's Signature	1			
Chod DAponti	Sampler's Signature		*///		
Proj. No. Project Name	т.	No/Type of Containers			
Matrix Date Time $egin{array}{c} To Un \mathcal{K} \\ & G \\ m & a \end{array}$ Identifying Ma		5 5 0- 2.			1706619
Pb	arks of Sample(s)	VOA VOA A/G 1.L. 250 and Class	bd /		Lab Sample ID (Lab Use Only)
W 207/17 0000 MW-	9	3	x X		-001
1100 mw-s	5				-002
1140 MW-1	6				-003
1150 mw-1	3				-004
1130 mw-	7				-005
1210 mw-1	15				-006
1300 mw-	121				-007
1350 mm-	8				-008
1440 mw-	2				-009
1 1515 MW-1	0				-010
	150% Rush 100% Rus				
	Time: Received by: (Sig	1.1.101K 4178	Time: NOTES:		a Ala
Relinguished, by (Signature), Date:	Time: Received by: (Sig	gnature) Date	Time: Bil	1 to AD	in Compate
	Time: Received by: (Sig				
Relinquished by (Signature) Date:	Time: Received by: (Sig	gnature) Date	Time:		e.
Matrix WW - Wastewater W - Water S Container VOA - 40 ml vial A/G - Amber / O	S - Soli SD - Solid L - Li Dr Glass 1 Liter 250 r		Charcoal tube SL - studge - Plastic or other	O - Oil	

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

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	Laboratory: <u>1/c.</u> Address: <u>ABo</u>	1 End	ANALYSIS REQUESTED	Leb use only Due Date:
APEX flice Location Azta	Address: HBO	ment and		Terrs: of coolers 1.C
Ince Location	Contact: A F	LEACH		2 3 4 6
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roject Manager K Som	PO/SO#:	ann an gu an		
mpler's Name	Sampler's Signature)	111
Une Disal:	ett a for	Ye.	¥ / / / /	
o No. Project	Namo	Nc/Type of Containers		
<i>ii</i> 1 C I G	Funk 6C			1706619
itinx Date Time on p	Kernitying Marks of Sample(s)	VOA Alfanse Alfanse POO		Lab Sample ID (Lab Use Only)
1/78:50	<i>mw-3</i>	3		-011
940	mout 101	للسر	×	-012
1030	mw 17 (W 7417	3	4	-013
· 100	MW-04	5	K	-014
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rquished by (Signature)	Date: Time: Received by: (Skp	hature) Date:	Tme:	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

January 16, 2018

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

OrderNo.: 1801582

Dear Kyle Summers:

RE: Trunk 6 C

Hall Environmental Analysis Laboratory received 15 sample(s) on 1/11/2018 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1801582 Date Reported: 1/16/2018

CLIENT: APEX TITAN			Client Sampl	e ID: MW-5		
Project: Trunk 6 C			Collection	Date: 1/9/201	8 9:35:00 AM	
Lab ID: 1801582-001	Matrix:	AQUEOUS	Received	Date: 1/11/20	18 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF Dat	e Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	1.0	µg/L	1 1/1	2/2018 10:56:49 A	M R48399
Toluene	ND	1.0	µg/L	1 1/1	2/2018 10:56:49 A	M R48399
Ethylbenzene	ND	1.0	µg/L	1 1/1	2/2018 10:56:49 A	M R48399
Ethylbenzene Xylenes, Total	ND ND	1.0 2.0	μg/L μg/L		2/2018 10:56:49 A 2/2018 10:56:49 A	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN			Client Sampl	le ID: M	W-9	
Project: Trunk 6 C			Collection	Date: 1/9	/2018 10:30:00 AM	
Lab ID: 1801582-002	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	ua/I	1	1/12/2018 12:06:52 PM	D 40000
Denzene	ND	1.0	µg/L	1	1/12/2010 12:00:0211	1 R48399
Toluene	ND	1.0	μg/L	1	1/12/2018 12:06:52 PM	
				י 1 1		1 R48399
Toluene	ND	1.0	µg/L	1 1 1	1/12/2018 12:06:52 PM	1 R48399 1 R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	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 1801582

Date Reported: 1/16/2018

1/12/2018 12:30:22 PM R48399

CLIENT: APEX TITAN Client Sample ID: MW-4 Project: Trunk 6 C Collection Date: 1/9/2018 11:25:00 AM Lab ID: 1801582-003 Matrix: AQUEOUS Received Date: 1/11/2018 8:10:00 AM Analyses Result PQL Qual Units **DF** Date Analyzed Batch **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 1.0 1/12/2018 12:30:22 PM R48399 µg/L 1 Toluene ND 1/12/2018 12:30:22 PM R48399 1.0 µg/L 1 Ethylbenzene ND 1.0 1/12/2018 12:30:22 PM R48399 µg/L 1 Xylenes, Total ND 2.0 µg/L 1 1/12/2018 12:30:22 PM R48399

72.5-140

%Rec

1

98.2

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: APEX TITAN Client Sample ID: MW-6 Collection Date: 1/9/2018 12:20:00 PM **Project:** Trunk 6 C Matrix: AQUEOUS Received Date: 1/11/2018 8:10:00 AM Lab ID: 1801582-004 PQL Qual Units **DF** Date Analyzed Result Batch Analyses EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 1.0 µg/L 1 1/12/2018 12:53:43 PM R48399 1/12/2018 12:53:43 PM R48399 Toluene ND 1.0 µg/L 1 Ethylbenzene 1/12/2018 12:53:43 PM R48399 3.6 1.0 µg/L 1 Xylenes, Total 12 2.0 µg/L 1 1/12/2018 12:53:43 PM R48399 Surr: 4-Bromofluorobenzene 101 72.5-140 %Rec 1 1/12/2018 12:53:43 PM R48399

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN			Client Samp	e ID: M	W-7	
Project: Trunk 6 C			Collection	Date: 1/9	/2018 1:10:00 PM	
Lab ID: 1801582-005	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	µg/L	1	1/12/2018 1:17:12 PM	R48399
Toluene	ND	1.0	µg/L	1	1/12/2018 1:17:12 PM	R48399
Ethylbenzene	ND	1.0	µg/L	1	1/12/2018 1:17:12 PM	R48399
Xylenes, Total	ND	2.0	µg/L	1	1/12/2018 1:17:12 PM	R48399
Surr: 4-Bromofluorobenzene	92.5	72.5-140	%Rec	1	1/12/2018 1:17:12 PM	R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	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 1801582					
Date Reported: 1/16/2018					

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	Client Sample ID: MW-3						
Project: Trunk 6 C	Collection Date: 1/9/2018 2:00:00 PM						
Lab ID: 1801582-006	Matrix:	AQUEOUS	Received 1	Date: 1/1	1/2018 8:10:00 AM		
Analyses	Result	POL Ou	al Units	DF	Date Analyzed	Batch	
				COLUMN 2 IS NOT THE OWNER.	And in case of the second s		
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
	ND	1.0	µg/L	1	Analyst 1/12/2018 1:40:24 PM	: NSB R48399	
EPA METHOD 8021B: VOLATILES	ND ND	1.0 1.0	µg/L µg/L	1 1			
EPA METHOD 8021B: VOLATILES Benzene		5-5-5-5-		1 1 1	1/12/2018 1:40:24 PM	R48399	
EPA METHOD 8021B: VOLATILES Benzene Toluene	ND	1.0	µg/L	1 1 1	1/12/2018 1:40:24 PM 1/12/2018 1:40:24 PM	R48399 R48399	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN			Client Sampl	le ID: MW-2	
Project: Trunk 6 C			Collection	Date: 1/9/2018 2:50:00 PM	
Lab ID: 1801582-007	Matrix:	AQUEOUS	Received	Date: 1/11/2018 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analys	: NSB
Benzene	ND	1.0	µg/L	1 1/12/2018 2:03:53 PM	R48399
Toluene	ND	1.0	µg/L	1 1/12/2018 2:03:53 PM	R48399
Ethylbenzene	ND	1.0	µg/L	1 1/12/2018 2:03:53 PM	R48399
Xylenes, Total	ND	2.0	µg/L	1 1/12/2018 2:03:53 PM	R48399
Surr: 4-Bromofluorobenzene	90.6	72.5-140	%Rec	1 1/12/2018 2:03:53 PM	R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	Client Sample ID: MW-8						
Project: Trunk 6 C			Collection	Date: 1/9/2018 3:40:00 PM			
Lab ID: 1801582-008	Matrix:	AQUEOUS	Received	Date: 1/11/2018 8:10:00 AM			
Analyses	Result	PQL Qua	l Units	DF Date Analyzed	Batch		
EPA METHOD 8021B: VOLATILES				Analy	st: NSB		
Benzene	ND	1.0	µg/L	1 1/12/2018 2:27:25 PM	R48399		
Toluene	ND	1.0	µg/L	1 1/12/2018 2:27:25 PM	R48399		
Ethylbenzene	ND	1.0	µg/L	1 1/12/2018 2:27:25 PM	1 R48399		
Xylenes, Total	ND	2.0	µg/L	1 1/12/2018 2:27:25 PM	1 R48399		
Surr: 4-Bromofluorobenzene	92.6	72.5-140	%Rec	1 1/12/2018 2:27:25 PM	R48399		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	N Client Sample ID: MW-14					
Project: Trunk 6 C			Collection	Date: 1/10	0/2018 8:40:00 AM	
Lab ID: 1801582-009	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
EPA METHOD 8021B: VOLATILES Benzene	ND	1.0	µg/L	1	Analyst 1/12/2018 2:50:51 PM	R48399
	ND ND	1.0 1.0	μg/L μg/L	1 1	,	
Benzene				1 1 1	1/12/2018 2:50:51 PM	R48399
Benzene Toluene	ND	1.0	µg/L	1 1 1	1/12/2018 2:50:51 PM 1/12/2018 2:50:51 PM	R48399 R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 1
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

CLIENT: APEX TITAN			Client Samp	e ID: M	W-15	
Project: Trunk 6 C			Collection	Date: 1/1	0/2018 9:40:00 AM	
Lab ID: 1801582-010	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	4.7	1.0	µg/L	1	1/12/2018 3:14:19 PM	R48399
Toluene	ND	1.0	µg/L	1	1/12/2018 3:14:19 PM	R48399
Ethylbenzene	2.8	1.0	µg/L	1	1/12/2018 3:14:19 PM	R48399
Xylenes, Total	33	2.0	µg/L	1	1/12/2018 3:14:19 PM	R48399
Surr: 4-Bromofluorobenzene	120	72.5-140	%Rec	1	1/12/2018 3:14:19 PM	R48399

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 10 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	Client Sample ID: MW-17						
Project: Trunk 6 C			Collection	Date: 1/1	0/2018 10:35:00 AM		
Lab ID: 1801582-011	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	5.2	1.0	µg/L	1	1/15/2018 9:34:52 AM	W48451	
Toluene	2.2	1.0	µg/L	1	1/15/2018 9:34:52 AM	W48451	
					1/15/2018 9:34:52 AM	MALAO AEA	
Ethylbenzene	1.2	1.0	µg/L	1	1/15/2016 9.34.52 AIVI	W48451	
Ethylbenzene Xylenes, Total	1.2 13	1.0 2.0	μg/L μg/L	1	1/15/2018 9:34:52 AM	W48451 W48451	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN			Client Samp	le ID: MW	/-1	
Project: Trunk 6 C			Collection	Date: 1/10	0/2018 11:35:00 AM	
Lab ID: 1801582-012	Matrix:	AQUEOUS	Received	Date: 1/11	/2018 8:10:00 AM	
Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	1300	50	µg/L	50	1/12/2018 5:57:58 PM	R48399
Toluene	710	50	µg/L	50	1/12/2018 5:57:58 PM	R48399
Ethylbenzene	59	50	µg/L	50	1/12/2018 5:57:58 PM	R48399
T	0.50	100		50	1/12/2018 5:57:58 PM	D 40000
Xylenes, Total	350	100	µg/L	50	1/12/2018 5:57:58 PW	R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limitsPage 12 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Project: Trunk 6 C			Client Sampl Collection		W-10 0/2018 12:30:00 PM	
Lab ID: 1801582-013	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	µg/L	1	1/12/2018 6:21:19 PM	R48399
Toluene	ND	1.0	µg/L	1	1/12/2018 6:21:19 PM	R48399
Ethylbenzene	ND	1.0	µg/L	1	1/12/2018 6:21:19 PM	R48399
Xylenes, Total	ND	2.0	µg/L	1	1/12/2018 6:21:19 PM	R48399
Surr: 4-Bromofluorobenzene	91.9	72.5-140	%Rec		1/12/2018 6:21:19 PM	R48399

Qualifians	*	Value exceeds Maximum Contaminant Level.	D	Analyte detected in the according Mathed Plank
Qualifiers:		value exceeds maximum Contaminant Level.	Б	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 13 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	Client Sample ID: MW-13					
Project: Trunk 6 C			Collection	Date: 1/1	0/2018 2:00:00 PM	
Lab ID: 1801582-014	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	µg/L	1	1/12/2018 6:44:41 PM	R48399
Toluene	ND	1.0	µg/L	1	1/12/2018 6:44:41 PM	R48399
Ethylbenzene	ND	1.0	µg/L	1	1/12/2018 6:44:41 PM	R48399
Xylenes, Total	ND	2.0	µg/L	1	1/12/2018 6:44:41 PM	R48399

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 14 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN	Client Sample ID: MW-11						
Project: Trunk 6 C			Collection	Date: 1/1	0/2018 2:40:00 PM		
Lab ID: 1801582-015	Matrix:	AQUEOUS	Received	Date: 1/1	1/2018 8:10:00 AM		
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	1.0	µg/L	1	1/12/2018 7:08:01 PM	R48399	
Toluene	ND	1.0	µg/L	1	1/12/2018 7:08:01 PM	R48399	
Ethylbenzene	ND	1.0	µg/L	1	1/12/2018 7:08:01 PM	R48399	
Xylenes, Total	ND	2.0	µg/L	1	1/12/2018 7:08:01 PM	R48399	
Surr: 4-Bromofluorobenzene	88.7	72.5-140	%Rec	1	1/12/2018 7:08:01 PM	R48399	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 15 of 17
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	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.

Client: APEX TITAN **Project:**

Trunk 6 C

rioject.	Trunk 0 C										
Sample ID RB		SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBV	N	Batch ID: R48399			F	RunNo: 4					
Prep Date:		Analysis Date: 1/12/2018			SeqNo: 1556789			Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Foluene		ND	1.0								
Ethylbenzene		ND	1.0								
(ylenes, Total		ND	2.0								
Surr: 4-Bromofluor	robenzene	19	2.0	20.00		96.7	72.5	140			
Sample ID 100	NG BTEX LCS	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCS			ID: R4			RunNo: 4					
Prep Date:		Analysis Da	ate: 1/	12/2018	S	SeqNo: 1	556790	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		19	1.0	20.00	0	95.0	77.3	117			
Ethylbenzene		19	1.0	20.00	0	93.8	78.8	119			
(ylenes, Total		57	2.0	60.00	0	95.6	76.9	121			
Surr: 4-Bromofluo	rohonzono	22	2.0	20.00	0	108	70.5	140			
Guil: 4-Diomolido	TODENZENE	~~~		20.00		100	12.0	140			
Sample ID 180	1582-001AMS	SampTy	pe: MS	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW	-5	Batch	ID: R4	8399	F	RunNo: 4	8399				
Prep Date:		Analysis Da	ate: 1/	12/2018	5	SeqNo: 1	556792	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0	95.5	75	121			
[oluene		19	1.0	20.00	0	96.5	78.1	119			
Ethylbenzene		19	1.0	20.00	0	95.4	78.8	125			
Xylenes, Total		59	2.0	60.00	0	97.9	76.4	128			
Surr: 4-Bromofluo	robenzene	20		20.00		99.8	72.5	140			
Sample ID 180	1582-001AMSD	SampTy	/pe: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW	-5	Batch	ID: R4	8399	F	RunNo: 4	8399				
Prep Date:		Analysis Da	ate: 1/	12/2018	5	SeqNo: 1	556793	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0	93.3	75	121	2.32	20	
Toluene		19	1.0	20.00	0	94.8	78.1	119	1.70	20	
Ethylbenzene		19	1.0	20.00	0	93.2	78.8	125	2.32	20	
Kylenes, Total		58	2.0	60.00	0	96.0	76.4	128	1.98	20	
Surr: 4-Bromofluo	robenzene	19		20.00		96.1	72.5	140	0	0	
									•		

Qualifiers:

D

Н

ND

* Value exceeds Maximum Contaminant Level.

Not Detected at the Reporting Limit

Sample Diluted Due to Matrix

- В Analyte detected in the associated Method Blank Е Value above quantitation range
 - J Analyte detected below quantitation limits

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Page 16 of 17
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Р Sample pH Not In Range RL Reporting Detection Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Holding times for preparation or analysis exceeded

Sample container temperature is out of limit as specified W

WO#: 1801582

16-Jan-18

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

APEX TITAN **Client: Project:**

Trunk 6 C

Sample ID RB	SampT	ype: ME	BLK	Test	tCode: E	PA Method	8021B: Volati	iles		
Client ID: PBW	Batch	1D: W4	8451	R	lunNo: 4	8451				
Prep Date:	Analysis D	ate: 1/	15/2018	S	eqNo: 1	557527	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		109	72.5	140			
Sample ID 100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	n ID: W4	48451	F	RunNo: 4	8451				
Prep Date:	Analysis D	ate: 1/	15/2018	S	SeqNo: 1	557528	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	73.9	120			
Toluene	19	1.0	20.00	0	92.5	77.3	117			
Ethylbenzene	18	1.0	20.00	0	92.4	78.8	119			
Xylenes, Total	56	2.0	60.00	0	94.2	76.9	121			
Surr: 4-Bromofluorobenzene	23		20.00		113	72.5	140			

Qualifiers:

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

Page 17 of 17

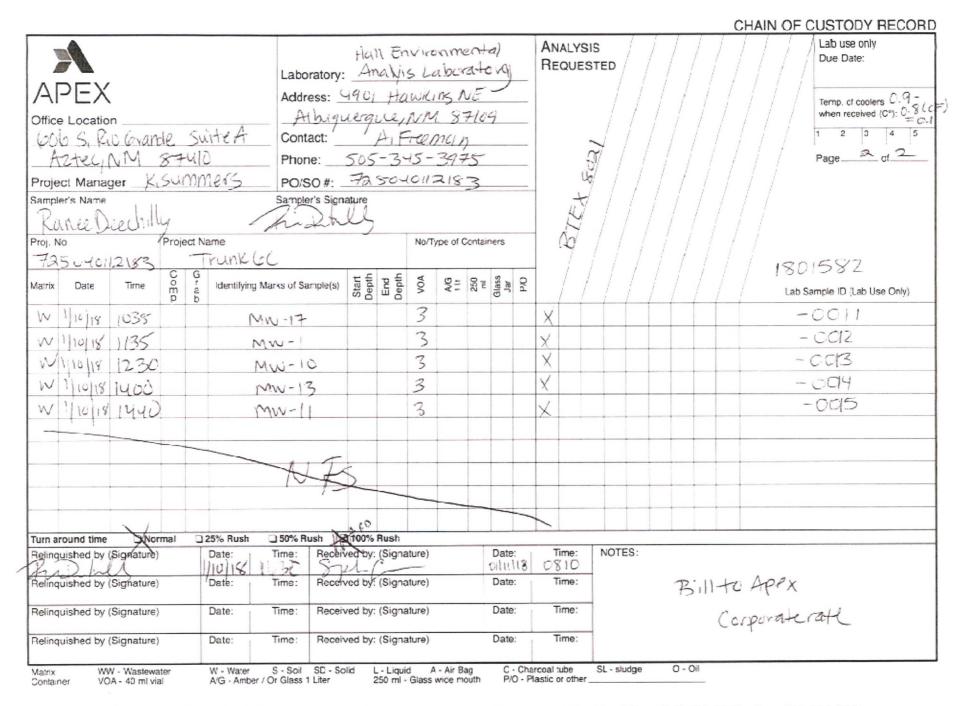
WO#: 1801582

16-Jan-18

ANAL	CONMENTAL YSIS RATORY	Hall Environmental Alb TEL: 505-345-3975 Website: www.hc	490 uquerq FAX:	1 Hawkins NE ue, NM 87109 505-345-4107	Sa	mple Log-In Check List	
Client Name:	APEX AZTEC	Work Order Number	180	1582		RcptNo: 1	
Received By:	Sophia Campuzano	1/11/2018 8:10:00 AM			Sophie Cary		
Completed By: Reviewed By:	Sophia Campuzano PDS	1/11/2018 8:42:12 AM [/ / 8			jophen ing	g	
Chain of Cus	ustody complete?		Yes		No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In 3. Was an attem	npt made to cool the samp	es?	Yes		No 🗋		
4. Were all same	ples received at a tempera	ture of >0° C to 6.0°C	Yes		No 🗋	NA 🗔	
5. Sample(s) in	proper container(s)?		Yes		No 🗌		
6, Sufficient sam	nple volume for indicated te	st(s)?	Yes		No 🗌		
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes	\checkmark	No 📙		
8. Was preserva	tive added to bottles?		Yes		No 🗹	NA 🗌	
9. VOA vials hav	ve zero headspace?		Yes		No 🗌	No VOA Vials	
	mple containers received b	roken?	Yes		No 🗹	# of preserved bottles checked	 :
	ork match bottle labels? ancies on chain of custody)	Yes		No 🗌	for pH: (<2 or >12 unless note	d)
12 Are matrices of	correctly identified on Chair	n of Custody?	Yes		No 🗌	Adjusted?	1
	t analyses were requested		Yes	\checkmark	No 🗌		1
14. Were all holdi	ng times able to be met? ustomer for authorization.)		Yes		No 🗌	Checked by:	ا ا
Special Handl	ling (if applicable)						
15. Was client no	otified of all discrepancies v	vith this order?	Yes		No 🗌	NA 🗹	
Person	Notified:	Date:		e in aller a caller of the react dependencies	a		
By Who	om:	Via: [eM	ail 📋 Phor	ne 🗌 Fa	x In Person	
Regard	ling:	an an an an ann an ann an Annaichte an an an Annaichte ann an an an an an ann an Annaichte ann an Annaichte ann	a ga a da	n in de la statistic de la section de la	path/texcative_tubics_tub		
Client I	nstructions:						
16. Additional re	marks:						
17. <u>Cooler Infor</u> Cooler No 1	1	Seal Intact Seal No Yes	Seal D	ate Sig	ned By		

.....

					CHAIN OF CUSTODY RECO
	Hall Env	vonnur	Herj	ANALYSIS	Lab use only
	Laboratory: Analy	sis Labo	ratery	REQUESTED	Due Date:
APEX	Address: 4901 H			/	Temp. of coolers 0.9 -
office Location	Albuqueque			1	Temp. of coolers 0.17 when received (C°): =
406 S. RIDGRANDE SUITEA	Contact: ATT			//	
AZTECINM 87410	Phone: 505-3		15-		Page of 3
Project Manager K.Summers	PO/SO#: 72504	10/12/8	3		//////
ampler's Name	Sampler's Signature				
Ranee Deechilly -	public			BIEN sand	
roj. No. Project Name	1	No/Type of (Containers	A PA	
725040112183 Trunk 60				- / / /	111111801582
latrix Date Time O A Identifying Ma	urks of Sample(s)	AVG AVG	250 ni Glass Jar P/O		Lab Sample ID (Lab Use Only)
N 19/18 935 MW	-5	3		X	- 001
V 1/9/18/1030 MV	N-9	3		X	- 002
	N-4	3		X	- 00 3
	W-G	3		X	-004
N 1/9/18 1310 M	W-7	3		X	-005
N 1/9/18 1400 M	W-3	3		X	-006
W 1/9/18 1450 M	W-2	3		X	-007
N 1/1/18 1540 M	W-8			X	-008
	W-14	1302		X	-009
	W-15	3		X	-010
furn around time Normal 25% Rush	🗅 50% Rush 🛛 100% Rush				
	Time: Received by: (Signa	ature)	Date: DI INDS	Time: NOTES	
the second	Time: Received by (Sign:	ature)	Date:	Time:	Bill to Apex
elinquished by (Signature) Date:	Time: Received by: (Signa	ature)	Date:	Time:	Bill to Apex Corporaterate
Relinquished by (Signature) Date:	Time: Received by: (Signa	ature)	Date:	Time:	



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