

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

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Enterprise Field Services, LLC	OGRID: 151618
Contact Name: Thomas Long	Contact Telephone: 505-599-2286
Contact email: tjlong@eprod.com	Incident # (assigned by OCD): NVF18128333301
Contact mailing address: 614 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude **36.730065** Longitude **-107.955320** (NAD 83 in decimal degrees to 5 decimal places)

Site Name Val Verde Plant	Site Type: Natural Gas Treatment Facility
Date Release Discovered: 4/30/2018 @ 5:45 p.m.	Serial Number (if applicable): N/A

Unit Letter	Section	Township	Range	County
A	14	29N	11W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: **Enterprise Field Services, LLC**)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls):	Volume Recovered (bbls):
<input type="checkbox"/> Natural Gas	Volume Released (Mcf):	Volume Recovered (Mcf):
<input checked="" type="checkbox"/> Other: Water/Amine Solution	Volume/Weight Released (provide units): Estimated 120 BBLs	Volume/Weight Recovered (provide units): NONE

Cause of Release: On April 30, 2018, during startup of Train 4 a Water/Amine (approximately 50% water and 50% amine) solution was ejected from the knockout tank vent stack onto the ground surface. An estimated 120 barrels of Water/Amine solution were released. Remediation activities were completed on August 29, 2108. The contaminant mass was removed by mechanical excavation. The final excavation dimensions measured approximately 332 feet long ranging from 6 to 90 feet wide by approximately 0.5 feet deep. Approximately 185 cubic yards of hydrocarbon impacted soil were excavated and stockpile on a plastic liner with other hydrocarbon impacted material associated with other remediation projects at the facility. The excavated soil was transported to a New Mexico Oil Conservation Division approved land farm facility in September 2018. A third party closure report is included with this "Final." C-141.

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields

Title: Director, Field Environmental

Signature: 

Date: 10/25/18

NMOCD

email: jefields@eprod.com

Telephone: (713) 381-6684

OCT 29 2018

DISTRICT 1111

OCD OnlyReceived by: 

Date: 10/29/18

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: 11/9/2018

Printed Name: Vanessa Fields

Title: Environmental Specialist



CORRECTIVE ACTION REPORT

Property:

Val Verde Plant Amine and Water Release (April 2018)
NE ¼, S14 T29N R11W
San Juan County, New Mexico

October 9, 2018
Apex Project No. 725040112442

Prepared for:


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

NMOC
OCT 29 2018
DISTRICT III

Prepared by:



Ranee Deechilly
Project Scientist



Kyle Summers, CPG
Branch Manager / Senior Geologist

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Chain of Custody Documentation

CORRECTIVE ACTION REPORT

Val Verde Plant Amine and Water Release (April 2018)

NE ¼, S14 T29N R11W
San Juan County, New Mexico

Apex Project No. 725040112442

1.0 INTRODUCTION

1.1 Site Description & Background

The Val Verde Plant amine and water release site, referred to hereinafter as the “Site”, is located within the Enterprise Field Services, LLC (Enterprise) Val Verde Plant facility in the northeast (NE ¼) of Section 14, Township 29 North, Range 11 West, in San Juan County, New Mexico (36.730065N, 107.955320W). The Site is located on private land controlled by Enterprise. The surroundings are predominately characterized by petroleum gathering, processing, and sales facilities.

A release of amine and water from a knock out tank occurred on April 30, 2018. Approximately 120 barrels (bbls) of amine and water were released from the tank and flowed south over the ground surface. Overspray from the release affected approximately 0.25 acres to the east of the knock out tank. During June 2018, Enterprise initiated scraping/excavation activities to remediate impact resulting from the amine and water release.

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

1.2 Project Objective

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

2.0 SITE RANKING

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

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

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

- Numerous wells are identified within a mile radius of the Site on the OSE Water Right Reporting System (WRRS) database. The nearest water well (SJ 03164) with a recorded depth to water is located approximately 0.4 miles south of the Site, at a lower elevation, with a depth to water of 56 feet below grade surface (bgs). However, based on data from a groundwater monitoring network located approximately 1,300 feet west of the Site, the depth to groundwater in the vicinity of the Site is anticipated to be less than 50 feet bgs, resulting in a ranking score of "20" for depth to groundwater.
- No water source wells (municipal/community wells) were identified within 1,000 feet of the Site. No private domestic water sources were identified within 200 feet of the Site. These proximities result in a wellhead protection area ranking score of "0".
- Hare Canyon Arroyo is located approximately 1,610 feet east of the Site. An irrigation ditch is located approximately 1,531 feet south of the Site and a small ephemeral wash, which is identified as a "blue line" on the United States Geological Survey topographic map, is located approximately 1,191 feet west of the Site. This information supports a distance to surface water ranking score of "0".

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

During June 2018, Enterprise initiated scraping/excavation activities to remediate impact resulting from the amine and water release. During the earthwork activities, West States Energy Contactors Inc., provided heavy equipment and labor support, and Apex provided environmental consulting support.

The extent of the total flow path measured approximately 332 feet in length and six (6) to 90 feet in width, with a maximum depth of approximately five (5) inches. The overspray area measured approximately 120 feet long and 112 feet wide

A total of approximately 185 cubic yards of petroleum hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix B**. This C-138 also includes soils from nearby releases that occurred at the facility (addressed in

separate reports). The excavation was backfilled with imported fill and resurfaced with gravel to provide a suitable driving/parking area.

Figures 3 indicates the approximate soil sample locations in relation to the flow path (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

3.2 Soil Sampling Program

Apex's soil sampling program included the collection of 35 composite soil samples (S-1 through S-35) from the excavation/overspray for laboratory analysis between June 2018 and August 2018. Soil associated with composite soil samples S-2 through S-12, S-14, S-18, S-21 through S-26, S-29, and S-30 exhibited COC concentrations above the applicable New Mexico EMNRD OCD standard and were removed by scraping/excavation and transported to Envirotech landfarm for disposal/remediation.

Each composite sample was comprised of five (5) aliquots collected at approximately 10-foot increments along the flow path.

A New Mexico EMNRD OCD was on-Site during the August 29, 2018 sampling event.

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

3.3 Soil Laboratory Analytical Methods

In accordance with the New Mexico EMNRD OCD recommendations to Enterprise, the composite soil samples were analyzed only for total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO) and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015.

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

4.0 DATA EVALUATION

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

4.1 Soil Samples

Apex compared the TPH concentrations or laboratory practical quantitation limits (PQLs) associated with the composite soil samples (S-1, S-7, S-13, S-15 through S-17, S-19, S-20, S-25, S-27, S-28, S-31 through S-35) to the New Mexico EMNRD OCD closure criteria. Soil associated with composite soil samples S-2 through S-12, S-14, S-18, S-21 through S-26, S-29, and S-30 were removed by scraping/excavation and transported to the Envirotech landfarm near Angel Peak for disposal/remediation and are not included in the following discussion.

- The laboratory analyses of the composite soil samples collected from soils remaining in place indicate combined TPH GRO/DRO/MRO concentrations ranging from below the laboratory PQLs to 82 mg/kg (S-7), which are below the New Mexico EMNRD OCD closure criteria of 100 mg/kg.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

5.0 FINDINGS AND RECOMMENDATIONS

The Val Verde Plant amine and water release site is located within the Enterprise Val Verde Plant facility in the NE ¼ of Section 14, Township 29 North, Range 11 West, in San Juan County, New Mexico. The Site is located on private land controlled by Enterprise. The area surrounding the release site is predominately characterized by petroleum gathering, processing, and sales facilities.

A release of amine and water from a knock out tank occurred on April 30, 2018. Approximately 120 bbls of amine and water were released from the pump and flowed south over the ground surface. Overspray from the release affected approximately 0.25 acres to the east of the knock out tank. During June 2018, Enterprise initiated scraping/excavation activities to remediate impact resulting from the amine and water release.

- The primary objective of the corrective action was to reduce COC concentrations in the on-Site soils to below the New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- Prior to backfilling, 35 composite samples soil samples were collected from the excavation for laboratory analyses. Based on soil analytical results, soils remaining in place do not exhibit concentrations of COCs that are detectable by EPA SW-846 Method #8015 above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 185 cubic yards of soils were transported to the Envirotech landfarm near Hilltop, New Mexico for disposal/remediation. The excavation was backfilled with imported fill and resurfaced with gravel.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

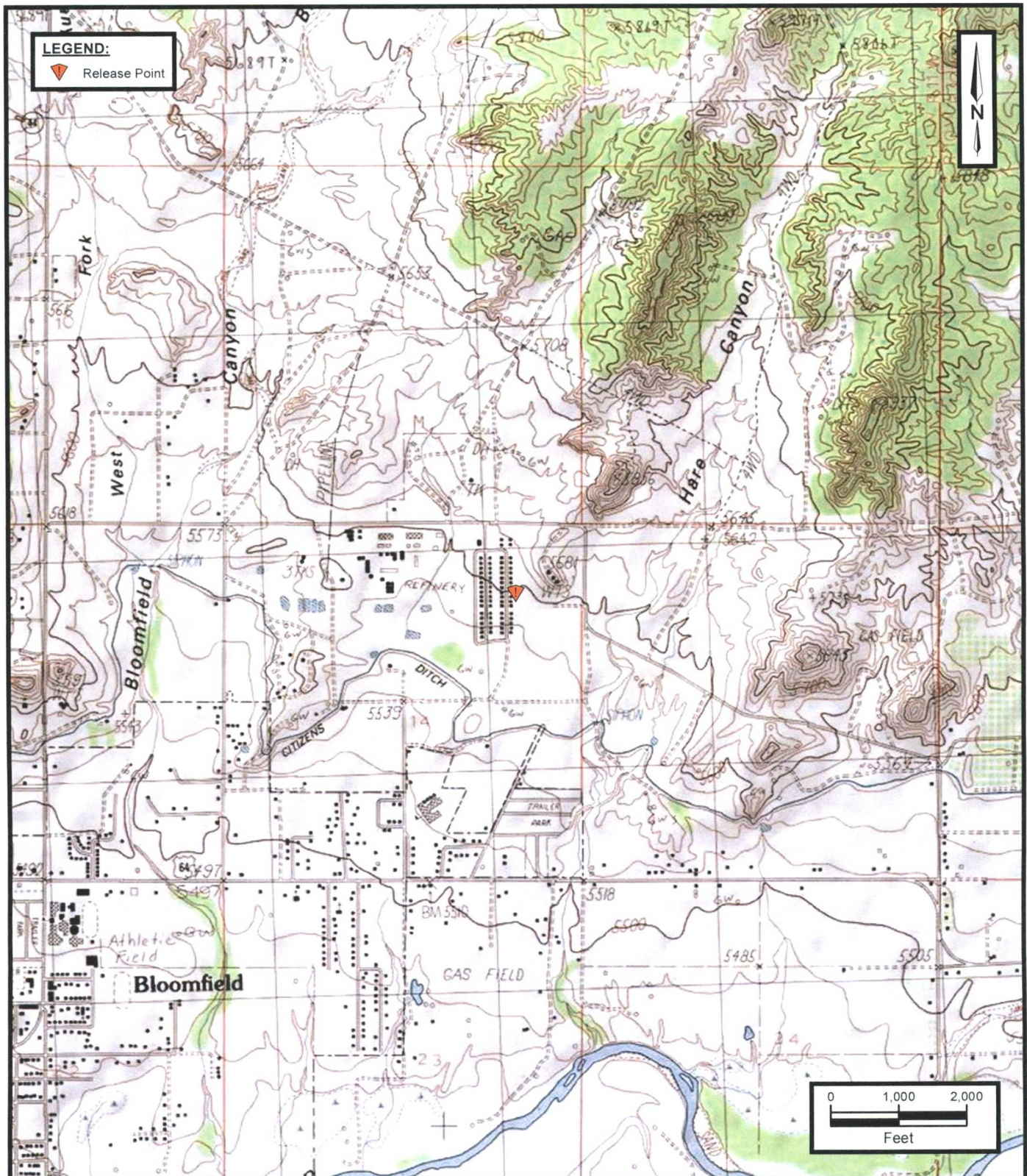
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence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

encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

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

APPENDIX A

Figures



Val Verde Plant Water/Amine Release
 April 2018
 NE1/4, S14 T29N R11W
 San Juan County, New Mexico
 36.730065 N, 107.955320 W



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

FIGURE 1

Topographic Map

Service Layer Credits:

Copyright © 2013 National Geographic Society, i-cubed, Bloomfield
 and Aztec New Mexico 7.5-Minute Quadrangles 1985

Project No. 725040112442

TABLE 1
Val Verde Plant Water/Amine Release (April 2018)
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Type C- Composite G - Grab	Sample (inches)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Closure Criteria							100
Composite Soil Samples Removed by Scraping/Excavation							
S-2	6.12.18	C	2	<5.0	2,400	<480	2,400
S-3	6.12.18	C	2	<4.6	200	<47	200
S-4	6.12.18	C	2	<4.7	3,900	<510	3,900
S-5	6.12.18	C	2	<4.8	840	<48	840
S-6	6.12.18	C	2	<5.0	420	<50	420
S-8	6.12.18	C	0 to 2	<4.8	1,400	<460	1,400
S-9	6.12.18	C	0 to 2	<4.6	2,700	<460	2,700
S-10	6.12.18	C	0 to 2	<4.8	1,600	<470	1,600
S-11	6.12.18	C	0 to 2	<4.9	550	<45	550
S-12	6.12.18	C	0 to 2	<4.7	310	<48	310
S-14	6.12.18	C	0 to 2	<4.9	110	<49	110
S-18	7.09.18	C	2	<5.0	140	<50	140
S-21	7.09.18	C	3	<4.7	100	<50	100
S-22	7.09.18	C	3	<4.9	810	<50	810
S-23	7.09.18	C	3	<4.9	530	<50	530
S-24	7.09.18	C	3	<4.6	170	<50	170
S-26	7.09.18	C	2.5	<4.6	150	<50	150
S-29	8.03.18	C	4	<4.9	220	<48	220
S-30	8.03.18	C	4	<4.8	180	<49	180
Composite Soil Samples							
S-1	6.12.18	C	2	<4.9	48	<47	48
S-7	6.12.18	C	0 to 2	<4.7	82	<47	82
S-13	6.12.18	C	0 to 2	<4.7	73	<47	73
S-15	6.12.18	C	0 to 2	<4.7	33	<45	33
S-16	6.12.18	C	0 to 2	<5.0	<10	<50	ND
S-17	7.09.18	C	2	<4.6	<9.8	<49	ND
S-19	7.09.18	C	2	<4.8	<10	<50	ND
S-20	7.09.18	C	3	<4.6	44	<50	44
S-25	7.09.18	C	2.5	<4.7	<9.9	<49	ND
S-27	7.09.18	C	0 to 2.5	<4.9	36	<50	36
S-28	8.03.18	C	4	<4.8	29	<49	29
S-31	8.03.18	C	4	<4.8	<9.8	<49	ND
S-32	8.03.18	C	3	<4.9	23	<50	23
S-33	8.03.18	C	3	<4.9	29	<48	29
S-34	8.29.18	C	5	<4.8	29	<49	29
S-35	8.29.18	C	5	<4.6	27	<49	27

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

ND = Not Detected above the laboratory Practical Quantitation Limits

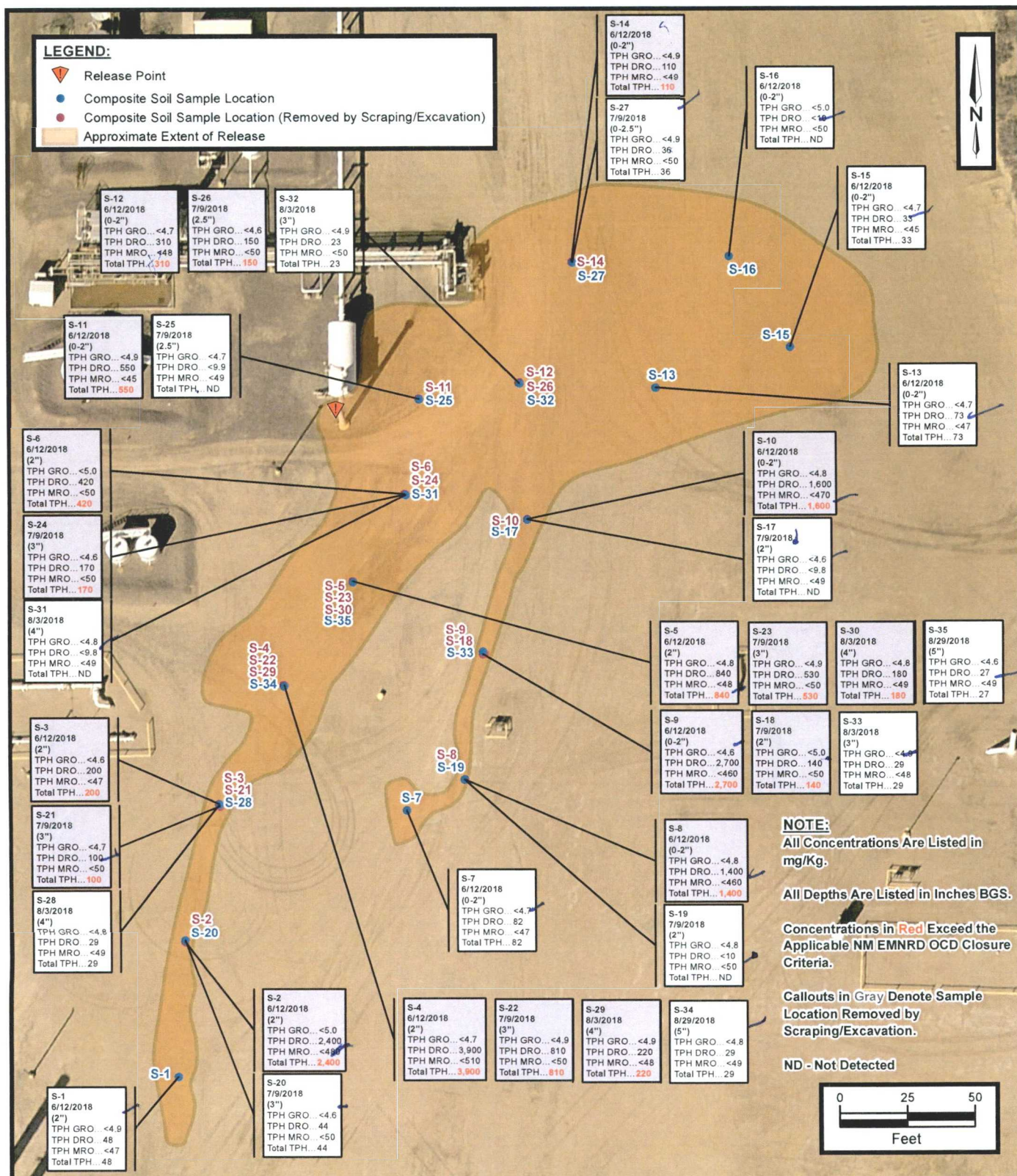
mg/kg = milligram per kilogram

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

TPH = Total Petroleum Hydrocarbon



Val Verde Plant Water/Amine Release
April 2018
NE1/4, S14 T29N R11W
San Juan County, New Mexico
36.730065 N, 107.955320 W



Apex TITAN, Inc.

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

www.apexcos.com

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FIGURE 3

Site Map with Soil Analytical Results

Service Layer Credits:
NAIP Aerial Photograph 2015

Project No. 725040112442



Val Verde Plant Water/Amine Release
April 2018
 NE1/4, S14 T29N R11W
 San Juan County, New Mexico
 36.730065 N, 107.955320 W



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Project No. 725040112442

Service Layer Credits
 Esri, HERE, Garmin, © OpenStreetMap contributors, Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community, NAIP Aerial Photograph 2015

APPENDIX B

Executed C-138 Solid Waste Acceptance Form

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

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

97057-0943
Form C-138
Revised 08/01/11
*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

2. Originating Site:
Val Verde Plant

3. Location of Material (Street Address, City, State or ULSTR):
Unit B Sec 14 T 29N R 11W

Sep. 2018

4. Source and Description of Waste:

Source: Hydrocarbon/Amine/Water impacted soil associated equipment failures.

Description: Hydrocarbon/Amine impacted soil associated with remediation activities from equipment failures.

Estimated Volume 30 yd³ bbls Known Volume (to be entered by the operator at the end of the haul) 360 yd³ bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long, representative or authorized agent for Enterprise Products Operating do hereby

Generator Signature

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

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

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

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

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long, representative for Enterprise Products Operating authorize Envirotech, Inc. to complete

Generator Signature

the required testing/sign the Generator Waste Testing Certification.

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

5. Transporter: ~~Nelson Revegetation~~, West States, HBL

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM01-0011

Address of Facility: Hill Top, NM

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree

TITLE: Environmental Manager DATE: 9/10/18

SIGNATURE: [Signature]
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 505-632-0615

APPENDIX C

Photographic Documentation

Photograph 1

View of the flow path, facing south-west.



Photograph 2

View of the flow path, facing east.



Photograph 3

View of the overspray area, facing northeast.



Photograph 4

View of the final scraped/excavated flow path, facing southwest.



Photograph 5

View of the final scraped/excavated flow path, facing southwest.



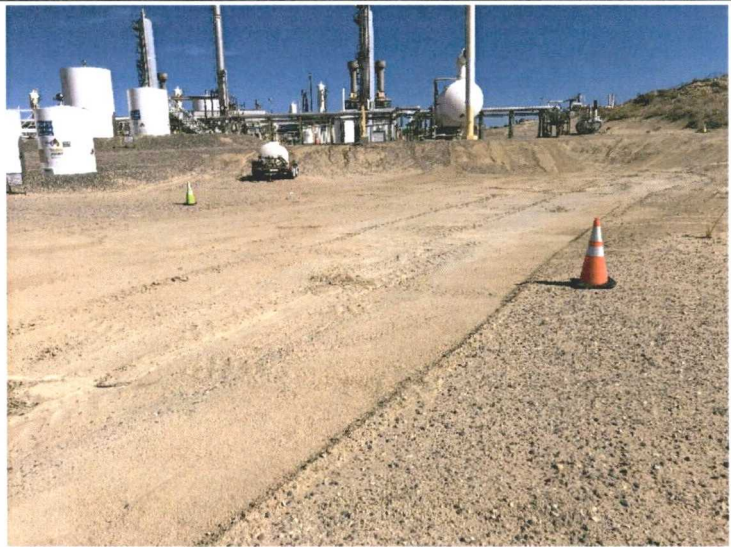
Photograph 6

View of the final scraped/excavated flow path, facing northwest.



Photograph 7

View of the final scraped/excavated flow path, facing north.



APPENDIX D

Table

Appendix E

Laboratory Data Sheets
& Chain of Custody Documentation



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

June 19, 2018

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

RE: Val Verde Plant Water Amine

OrderNo.: 1806741

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 16 sample(s) on 6/13/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-1

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 9:30:00 AM

Lab ID: 1806741-001

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	48	9.4		mg/Kg	1	6/15/2018 1:26:22 PM	38686
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2018 1:26:22 PM	38686
Surr: DNOP	87.8	70-130		%Rec	1	6/15/2018 1:26:22 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2018 12:48:37 AM	38670
Surr: BFB	84.6	15-316		%Rec	1	6/15/2018 12:48:37 AM	38670

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

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

Analytical ReportLab Order **1806741**Date Reported: **6/19/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** S-2**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 9:40:00 AM**Lab ID:** 1806741-002**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	2400	97		mg/Kg	10	6/19/2018 2:09:02 AM	38686
Motor Oil Range Organics (MRO)	ND	480		mg/Kg	10	6/19/2018 2:09:02 AM	38686
Surr: DNOP	0	70-130	S	%Rec	10	6/19/2018 2:09:02 AM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2018 1:11:58 AM	38670
Surr: BFB	85.6	15-316		%Rec	1	6/15/2018 1:11:58 AM	38670

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

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

Analytical Report

Lab Order 1806741

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-3

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 9:50:00 AM

Lab ID: 1806741-003

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	200	9.3		mg/Kg	1	6/15/2018 3:40:46 PM	38686
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2018 3:40:46 PM	38686
Surr: DNOP	100	70-130		%Rec	1	6/15/2018 3:40:46 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/15/2018 1:35:12 AM	38670
Surr: BFB	85.3	15-316		%Rec	1	6/15/2018 1:35:12 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-4

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 10:00:00 AM

Lab ID: 1806741-004

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	3900	100		mg/Kg	10	6/19/2018 2:33:11 AM	38686
Motor Oil Range Organics (MRO)	ND	510		mg/Kg	10	6/19/2018 2:33:11 AM	38686
Surr: DNOP	0	70-130	S	%Rec	10	6/19/2018 2:33:11 AM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2018 1:58:25 AM	38670
Surr: BFB	84.8	15-316		%Rec	1	6/15/2018 1:58:25 AM	38670

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

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

Analytical ReportLab Order **1806741**Date Reported: **6/19/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** S-5**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 10:10:00 AM**Lab ID:** 1806741-005**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	840	9.6		mg/Kg	1	6/15/2018 4:29:25 PM	38686
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2018 4:29:25 PM	38686
Surr: DNOP	105	70-130		%Rec	1	6/15/2018 4:29:25 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2018 2:21:36 AM	38670
Surr: BFB	87.6	15-316		%Rec	1	6/15/2018 2:21:36 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-6
Project: Val Verde Plant Water Amine **Collection Date:** 6/12/2018 10:20:00 AM
Lab ID: 1806741-006 **Matrix:** SOIL **Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	420	10		mg/Kg	1	6/15/2018 4:53:47 PM	38686
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2018 4:53:47 PM	38686
Surr: DNOP	105	70-130		%Rec	1	6/15/2018 4:53:47 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2018 2:44:52 AM	38670
Surr: BFB	85.7	15-316		%Rec	1	6/15/2018 2:44:52 AM	38670

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

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

Analytical Report

Lab Order 1806741

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-7**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 10:30:00 AM**Lab ID:** 1806741-007**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	82	9.5		mg/Kg	1	6/15/2018 5:18:02 PM	38686
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2018 5:18:02 PM	38686
Surr: DNOP	103	70-130		%Rec	1	6/15/2018 5:18:02 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2018 3:08:07 AM	38670
Surr: BFB	83.9	15-316		%Rec	1	6/15/2018 3:08:07 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-8

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 10:40:00 AM

Lab ID: 1806741-008

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1400	92		mg/Kg	10	6/19/2018 2:57:25 AM	38686
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	6/19/2018 2:57:25 AM	38686
Surr: DNOP	0	70-130	S	%Rec	10	6/19/2018 2:57:25 AM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2018 3:31:23 AM	38670
Surr: BFB	89.7	15-316		%Rec	1	6/15/2018 3:31:23 AM	38670

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

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

Analytical ReportLab Order **1806741**

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-9**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 10:50:00 AM**Lab ID:** 1806741-009**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	2700	91		mg/Kg	10	6/19/2018 3:21:42 AM	38686
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	6/19/2018 3:21:42 AM	38686
Surr: DNOP	0	70-130	S	%Rec	10	6/19/2018 3:21:42 AM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/15/2018 3:54:38 AM	38670
Surr: BFB	88.1	15-316		%Rec	1	6/15/2018 3:54:38 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-10
Project: Val Verde Plant Water Amine **Collection Date:** 6/12/2018 11:00:00 AM
Lab ID: 1806741-010 **Matrix:** SOIL **Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1600	93		mg/Kg	10	6/19/2018 3:46:02 AM	38686
Motor Oil Range Organics (MRO)	ND	470		mg/Kg	10	6/19/2018 3:46:02 AM	38686
Surr: DNOP	0	70-130	S	%Rec	10	6/19/2018 3:46:02 AM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/15/2018 4:17:54 AM	38670
Surr: BFB	86.7	15-316		%Rec	1	6/15/2018 4:17:54 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-11
Project: Val Verde Plant Water Amine **Collection Date:** 6/12/2018 11:10:00 AM
Lab ID: 1806741-011 **Matrix:** SOIL **Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	550	9.0		mg/Kg	1	6/15/2018 6:55:27 PM	38686
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/15/2018 6:55:27 PM	38686
Surr: DNOP	107	70-130		%Rec	1	6/15/2018 6:55:27 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2018 4:41:11 AM	38670
Surr: BFB	85.7	15-316		%Rec	1	6/15/2018 4:41:11 AM	38670

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-12

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 11:20:00 AM

Lab ID: 1806741-012

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	310	9.7		mg/Kg	1	6/15/2018 7:19:55 PM	38686
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2018 7:19:55 PM	38686
Surr: DNOP	104	70-130		%Rec	1	6/15/2018 7:19:55 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2018 3:05:19 PM	38670
Surr: BFB	85.4	15-316		%Rec	1	6/15/2018 3:05:19 PM	38670

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

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

Analytical ReportLab Order **1806741**

Date Reported: 6/19/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** APEX TITAN**Client Sample ID:** S-13**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 11:30:00 AM**Lab ID:** 1806741-013**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	73	9.4		mg/Kg	1	6/15/2018 7:44:21 PM	38686
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2018 7:44:21 PM	38686
Surr: DNOP	97.5	70-130		%Rec	1	6/15/2018 7:44:21 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2018 3:29:01 PM	38670
Surr: BFB	83.7	15-316		%Rec	1	6/15/2018 3:29:01 PM	38670

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

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

Analytical ReportLab Order **1806741**Date Reported: **6/19/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** APEX TITAN**Client Sample ID:** S-14**Project:** Val Verde Plant Water Amine**Collection Date:** 6/12/2018 11:40:00 AM**Lab ID:** 1806741-014**Matrix:** SOIL**Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	110	9.8		mg/Kg	1	6/15/2018 8:08:47 PM	38686
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2018 8:08:47 PM	38686
Surr: DNOP	100	70-130		%Rec	1	6/15/2018 8:08:47 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2018 3:52:40 PM	38679
Surr: BFB	84.6	15-316		%Rec	1	6/15/2018 3:52:40 PM	38679

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-15
Project: Val Verde Plant Water Amine **Collection Date:** 6/12/2018 11:50:00 AM
Lab ID: 1806741-015 **Matrix:** SOIL **Received Date:** 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	33	9.0		mg/Kg	1	6/15/2018 8:33:01 PM	38686
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/15/2018 8:33:01 PM	38686
Surr: DNOP	92.8	70-130		%Rec	1	6/15/2018 8:33:01 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/15/2018 4:16:18 PM	38679
Surr: BFB	82.8	15-316		%Rec	1	6/15/2018 4:16:18 PM	38679

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-16

Project: Val Verde Plant Water Amine

Collection Date: 6/12/2018 12:00:00 PM

Lab ID: 1806741-016

Matrix: SOIL

Received Date: 6/13/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2018 8:57:22 PM	38686
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2018 8:57:22 PM	38686
Surr: DNOP	92.4	70-130		%Rec	1	6/15/2018 8:57:22 PM	38686
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2018 4:40:01 PM	38679
Surr: BFB	81.6	15-316		%Rec	1	6/15/2018 4:40:01 PM	38679

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806741

19-Jun-18

Client: APEX TITAN

Project: Val Verde Plant Water Amine

Sample ID	LCS-38686		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38686		RunNo: 52007					
Prep Date:	6/14/2018		Analysis Date: 6/15/2018		SeqNo: 1701226		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.2	70	130			
Surr: DNOP	4.8		5.000		97.0	70	130			

Sample ID	MB-38686		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	38686		RunNo:	52007				
Prep Date:	6/14/2018		Analysis Date:	6/15/2018		SeqNo:	1701227		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		99.6	70	130				

Sample ID	1806741-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-1		Batch ID: 38686		RunNo: 52005					
Prep Date:	6/14/2018		Analysis Date: 6/15/2018		SeqNo: 1702174		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	76	9.2	46.17	47.89	60.6	62	120			S
Surr: DNOP	3.9		4.617		84.9	70	130			

Sample ID	1806741-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-1		Batch ID:	38686		RunNo:	52005				
Prep Date:	6/14/2018		Analysis Date:	6/15/2018		SeqNo:	1702175		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	69	9.1	45.70	47.89	46.5	62	120	9.25	20	S	
Surr: DNOP	3.7		4.570		80.6	70	130	0	0		

Sample ID	LCS-38703		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 38703		RunNo: 52042					
Prep Date:	6/15/2018		Analysis Date: 6/18/2018		SeqNo: 1702796		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	70	130			

Sample ID	MB-38703		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 38703		RunNo: 52042					
Prep Date:	6/15/2018		Analysis Date: 6/18/2018		SeqNo: 1702797		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806741

19-Jun-18

Client: APEX TITAN

Project: Val Verde Plant Water Amine

Sample ID	MB-38703	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	38703	RunNo:	52042					
Prep Date:	6/15/2018	Analysis Date:	6/18/2018	SeqNo:	1702797	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		120	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806741

19-Jun-18

Client: APEX TITAN

Project: Val Verde Plant Water Amine

Sample ID	MB-38670	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	38670		RunNo:	51984				
Prep Date:	6/13/2018	Analysis Date:	6/14/2018		SeqNo:	1700038	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	800		1000		80.3	15	316			

Sample ID	LCS-38670		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 38670		RunNo: 51984					
Prep Date:	6/13/2018		Analysis Date: 6/14/2018		SeqNo: 1700039		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1000		1000		99.9	15	316			

Sample ID	RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID: G52014			RunNo: 52014					
Prep Date:		Analysis Date: 6/15/2018			SeqNo: 1701576		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	830		1000		82.8	15	316			
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Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G52014	RunNo:	52014					
Prep Date:		Analysis Date:	6/15/2018	SeqNo:	1701577	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: BFB	990		1000		99.4	15	316			
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Sample ID	MB-38679	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	38679		RunNo:	52014				
Prep Date:	6/14/2018	Analysis Date:	6/15/2018		SeqNo:	1701592	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	810		1000		80.8	15	316			

Sample ID	LCS-38679		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	38679		RunNo:	52014				
Prep Date:	6/14/2018		Analysis Date:	6/15/2018		SeqNo:	1701593		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	75.9	131			
Surr: BFB	1000		1000		100	15	316			

Qualifiers:

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

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1806741

RcptNo: 1

Received By: Anne Thorne 6/13/2018 7:00:00 AM

Completed By: Anne Thorne 6/13/2018 8:14:47 AM

Reviewed By: ENM
LB: SB 06/13/18

Anne Thorne

Anne Thorne

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)
Adjusted? 06/13/18
Checked by: SB

Special Handling (if applicable)

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

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

16. Additional remarks:

CUSTODY SEALS INTACT ON SOIL JARS/at 6/13/18


17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

 APEX Office Location _____ <u>bdb S Rio Grande, Suite A</u> <u>Artec, NM 87410</u> Project Manager <u>K Summers</u>			Hall Environmental Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A Freeman</u> Phone: <u>505-345-3978</u> PO/SO #: <u>See series</u>			ANALYSIS REQUESTED			Lab use only Due Date:								
									<u>2.3-CF-1.0 = 1.5</u> Temp. of coolers when received (C°): 1 2 3 4 5 Page <u>1</u> of <u>2</u>								
Sampler's Name <u>Ranee Deechilly</u>			Sampler's Signature 			TPH GPD/HDR/MRO soils-											
Proj. No.		Project Name		No/Type of Containers													
<u>72504011242</u>		<u>Vai Verde Plant - water Amine</u>															
Matrix	Date	Time	<div>C O C D G r a b</div>	Identifying Marks of Sample(s)	<div>S t a r t D e p t h</div>							<div>E n d D e p t h</div>	VOA	AG 1 L	250 ml	Glass Jar	P/O
<u>S</u>	<u>6/12/18</u>	<u>930</u>	<u>X</u>	<u>S-1</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>940</u>	<u>X</u>	<u>S-2</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>950</u>	<u>X</u>	<u>S-3</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>1000</u>	<u>X</u>	<u>S-4</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>1010</u>	<u>X</u>	<u>S-5</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>1020</u>	<u>X</u>	<u>S-6</u>												<u>1</u>	<u>X</u>
<u>S</u>	<u>6/12/18</u>	<u>1030</u>	<u>X</u>	<u>S-7</u>						<u>1</u>	<u>X</u>						
<u>S</u>	<u>6/12/18</u>	<u>1040</u>	<u>X</u>	<u>S-8</u>						<u>1</u>	<u>X</u>						
<u>S</u>	<u>6/12/18</u>	<u>1050</u>	<u>X</u>	<u>S-9</u>						<u>1</u>	<u>X</u>						
<u>S</u>	<u>6/12/18</u>	<u>1100</u>	<u>X</u>	<u>S-10</u>						<u>1</u>	<u>X</u>						
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush																	
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>6/12/18</u>	Time: <u>1447</u>	Received by (Signature) <u>Matt Dale</u>		Date: <u>6/12/18</u>	Time: <u>1447</u>	NOTES: PM - Tom Long Pay Key - TC 25719 Non AFE - N34996									
Relinquished by (Signature) <u>Matt Dale</u>		Date: <u>6/12/18</u>	Time: <u>1854</u>	Received by (Signature) <u>[Signature]</u>		Date: <u>6/13/18</u>	Time: <u>0700</u>										
Relinquished by (Signature)_____		Date:_____	Time:_____	Received by (Signature)_____		Date:_____	Time:_____										
Relinquished by (Signature)_____		Date:_____	Time:_____	Received by (Signature)_____		Date:_____	Time:_____										

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

CHAIN OF CUSTODY RECORD

 APEX Office Location _____ 606 S Rio Grande, Suite A Aztec, NM 87410 Project Manager <u>R. Summers</u>		Hall Environmental Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="transform: rotate(-90deg); transform-origin: center;">TPT 620/DB/MPO 5015</div>		Lab use only Due Date: _____ 2.3-16-18 = 13 Temp. of coolers when received (C°): _____ 1 2 3 4 5 Page <u>R</u> of <u>2</u>							
		Sampler's Name <u>Ranee Deechilly</u> Sampler's Signature <u>[Signature]</u>											
Proj. No. <u>725040112442</u> Project Name <u>Val Verde Plant - Water/Amine</u> No/Type of Containers _____													
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	6/12/18	1110	X		S-11						1	X	1806741011
S	6/12/18	1120	X		S-12						1	X	012
S	6/12/18	1130	X		S-13						1	X	013
S	6/12/18	1140	X		S-14						1	X	014
S	6/12/18	1150	X		S-15						1	X	015
S	6/12/18	1200	X		S-16						1	X	016
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> N/A </div>													
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush													
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>6/12/18</u>	Time: <u>1447</u>	Received by (Signature) <u>[Signature]</u>		Date: <u>6/12/18</u>	Time: <u>1447</u>	NOTES: PM - Tom Long Pay Key - TC 25719 Non APE - N34996					
Relinquished by (Signature) <u>[Signature]</u>		Date: <u>6/12/18</u>	Time: <u>1854</u>	Received by (Signature) <u>[Signature]</u>		Date: <u>6/11/18</u>	Time: <u>0700</u>						
Relinquished by (Signature) _____		Date: _____	Time: _____	Received by (Signature) _____		Date: _____	Time: _____						
Relinquished by (Signature) _____		Date: _____	Time: _____	Received by (Signature) _____		Date: _____	Time: _____						
Matrix Container		WW - Wastewater VOA - 40 ml vial		W - Water A/G - Amber / Or Glass 1 Liter		S - Soil SD - Solid		L - Liquid 250 ml - Glass wide mouth		A - Air Bag P/O - Plastic or other		C - Charcoal tube SL - sludge O - Oil	



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

July 17, 2018

Kyle Summers

APEX TITAN

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Val Verde Plant Water/Amine

OrderNo.: 1807337

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 11 sample(s) on 7/10/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-17

Project: Val Verde Plant Water/Amine

Collection Date: 7/9/2018 9:15:00 AM

Lab ID: 1807337-001

Matrix: SOIL

Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/11/2018 2:40:50 PM	39125
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2018 2:40:50 PM	39125
Surr: DNOP	92.1	70-130		%Rec	1	7/11/2018 2:40:50 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/11/2018 1:03:04 PM	39120
Surr: BFB	94.4	15-316		%Rec	1	7/11/2018 1:03:04 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-18
Project: Val Verde Plant Water/Amine **Collection Date:** 7/9/2018 9:20:00 AM
Lab ID: 1807337-002 **Matrix:** SOIL **Received Date:** 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	140	10		mg/Kg	1	7/11/2018 3:05:38 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 3:05:38 PM	39125
Surr: DNOP	105	70-130		%Rec	1	7/11/2018 3:05:38 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/11/2018 1:26:38 PM	39120
Surr: BFB	93.2	15-316		%Rec	1	7/11/2018 1:26:38 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-19
Project: Val Verde Plant Water/Amine **Collection Date:** 7/9/2018 9:25:00 AM
Lab ID: 1807337-003 **Matrix:** SOIL **Received Date:** 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/11/2018 3:55:15 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 3:55:15 PM	39125
Surr: DNOP	97.2	70-130		%Rec	1	7/11/2018 3:55:15 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/11/2018 1:50:10 PM	39120
Surr: BFB	96.2	15-316		%Rec	1	7/11/2018 1:50:10 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-20

Project: Val Verde Plant Water/Amine

Collection Date: 7/9/2018 9:30:00 AM

Lab ID: 1807337-004

Matrix: SOIL

Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	44	9.9		mg/Kg	1	7/11/2018 4:20:06 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 4:20:06 PM	39125
Surr: DNOP	94.0	70-130		%Rec	1	7/11/2018 4:20:06 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/11/2018 2:13:45 PM	39120
Surr: BFB	102	15-316		%Rec	1	7/11/2018 2:13:45 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-21
Project: Val Verde Plant Water/Amine **Collection Date:** 7/9/2018 9:35:00 AM
Lab ID: 1807337-005 **Matrix:** SOIL **Received Date:** 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	100	10		mg/Kg	1	7/11/2018 4:45:00 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 4:45:00 PM	39125
Surr: DNOP	97.6	70-130		%Rec	1	7/11/2018 4:45:00 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/11/2018 2:37:23 PM	39120
Surr: BFB	102	15-316		%Rec	1	7/11/2018 2:37:23 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN **Client Sample ID:** S-22
Project: Val Verde Plant Water/Amine **Collection Date:** 7/9/2018 9:40:00 AM
Lab ID: 1807337-006 **Matrix:** SOIL **Received Date:** 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	810	10		mg/Kg	1	7/11/2018 5:09:51 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 5:09:51 PM	39125
Surr: DNOP	107	70-130		%Rec	1	7/11/2018 5:09:51 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/11/2018 3:00:58 PM	39120
Surr: BFB	106	15-316		%Rec	1	7/11/2018 3:00:58 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-23

Project: Val Verde Plant Water/Amine

Collection Date: 7/9/2018 9:45:00 AM

Lab ID: 1807337-007

Matrix: SOIL

Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	530	10		mg/Kg	1	7/11/2018 5:34:34 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2018 5:34:34 PM	39125
Surr: DNOP	105	70-130		%Rec	1	7/11/2018 5:34:34 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/11/2018 3:24:29 PM	39120
Surr: BFB	103	15-316		%Rec	1	7/11/2018 3:24:29 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1807337

Date Reported: 7/17/2018

CLIENT: APEX TITAN

Client Sample ID: S-24

Project: Val Verde Plant Water/Amine

Collection Date: 7/9/2018 9:50:00 AM

Lab ID: 1807337-008

Matrix: SOIL

Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	170	10		mg/Kg	1	7/14/2018 3:33:05 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2018 3:33:05 PM	39125
Surr: DNOP	104	70-130		%Rec	1	7/14/2018 3:33:05 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/11/2018 3:48:05 PM	39120
Surr: BFB	98.1	15-316		%Rec	1	7/11/2018 3:48:05 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-25

Project: Val Verde Plant Water/Amine

Collection Date: 7/9/2018 9:55:00 AM

Lab ID: 1807337-009

Matrix: SOIL

Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2018 3:55:24 PM	39125
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2018 3:55:24 PM	39125
Surr: DNOP	104	70-130		%Rec	1	7/14/2018 3:55:24 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/11/2018 7:19:25 PM	39120
Surr: BFB	93.4	15-316		%Rec	1	7/11/2018 7:19:25 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-26
 Project: Val Verde Plant Water/Amine Collection Date: 7/9/2018 10:00:00 AM
 Lab ID: 1807337-010 Matrix: SOIL Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	150	10		mg/Kg	1	7/14/2018 4:17:41 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2018 4:17:41 PM	39125
Surr: DNOP	115	70-130		%Rec	1	7/14/2018 4:17:41 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/11/2018 7:42:47 PM	39120
Surr: BFB	92.1	15-316		%Rec	1	7/11/2018 7:42:47 PM	39120

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN Client Sample ID: S-27
 Project: Val Verde Plant Water/Amine Collection Date: 7/9/2018 10:05:00 AM
 Lab ID: 1807337-011 Matrix: SOIL Received Date: 7/10/2018 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	36	9.9		mg/Kg	1	7/14/2018 4:39:56 PM	39125
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2018 4:39:56 PM	39125
Surr: DNOP	109	70-130		%Rec	1	7/14/2018 4:39:56 PM	39125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/11/2018 8:06:07 PM	39120
Surr: BFB	93.2	15-316		%Rec	1	7/11/2018 8:06:07 PM	39120

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807337

17-Jul-18

Client: APEX TITAN

Project: Val Verde Plant Water/Amine

Sample ID	MB-39125	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	39125	RunNo:	52618					
Prep Date:	7/10/2018	Analysis Date:	7/11/2018	SeqNo:	1726901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.0	70	130			

Sample ID	LCS-39125	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	39125	RunNo:	52618					
Prep Date:	7/10/2018	Analysis Date:	7/11/2018	SeqNo:	1726902	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	4.1		5.000		82.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1807337

17-Jul-18

Client: APEX TITAN

Project: Val Verde Plant Water/Amine

Sample ID	MB-39120	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	39120	RunNo	52630					
Prep Date	7/10/2018	Analysis Date	7/11/2018	SeqNo	1727168	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.5	15	316			

Sample ID	LCS-39120	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	39120	RunNo	52630					
Prep Date	7/10/2018	Analysis Date	7/11/2018	SeqNo	1727169	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.7	75.9	131			
Surr: BFB	1000		1000		105	15	316			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1807337

RcptNo: 1

Received By: Isaiah Ortiz 7/10/2018 7:25:00 AM

IO

Completed By: Isaiah Ortiz 7/10/2018 7:41:55 AM

IO

Reviewed By:

LB: ENM 7/10/18

7/10/18

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:
(<2 >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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


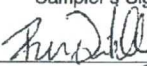
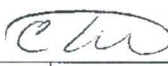
Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:



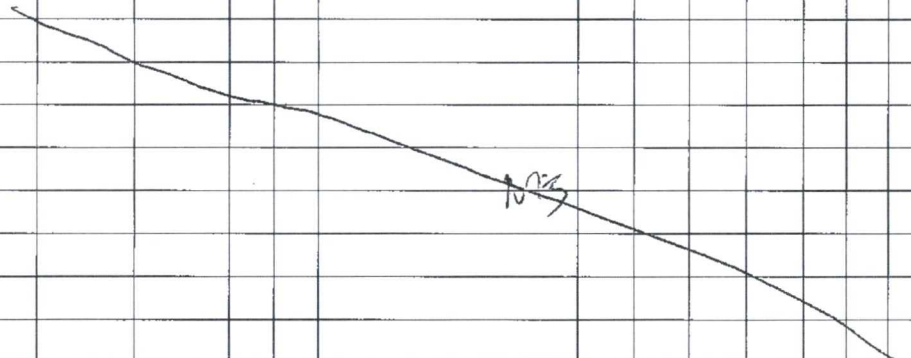
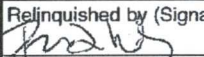
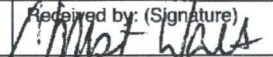
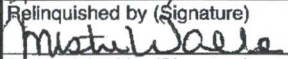
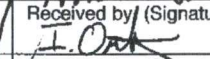
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.3	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location _____ <u>606 S Rio Grande Suite A</u> <u>Aztec, NM 87410</u> Project Manager <u>K. Summer</u>		Hall Environmental Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins Ave</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="border: 1px solid black; height: 100px; width: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; transform: rotate(-90deg); transform-origin: left top; white-space: nowrap;">TPH (P/P/D/P/M/P/S)</div> </div>										Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>0.3</u> <div style="display: flex; justify-content: space-around; width: 100%;"> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> </div> Page <u>1</u> of <u>2</u>									
		Sampler's Name <u>Ranee Deechilly CD Aperti</u>		Sampler's Signature  												Lab Sample ID (Lab Use Only)							
Proj. No. <u>72504011242</u>		Project Name <u>Val Verde Plant-Water/Amine</u>																No/Type of Containers					
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O											
S	7/9/18	915	X		S-17						1		X	1807337 -001									
S	7/9/18	920	X		S-18						1		X	-002									
S	7/9/18	925	X		S-19						1		X	-003									
S	7/9/18	930	X		S-20						1		X	-004									
S	7/9/18	935	X		S-21						1		X	-005									
S	7/9/18	940	X		S-22						1		X	-006									
S	7/9/18	945	X		S-23						1		X	-007									
S	7/9/18	950	X		S-24						1		X	-008									
S	7/9/18	955	X		S-25						1		X	-009									
S	7/9/18	1000	X		S-26						1		X	-010									
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush																							
Relinquished by (Signature)			Date: <u>7/9/18</u>		Time: <u>1322</u>		Received by (Signature)			Date: <u>7/9/18</u>		Time: <u>1322</u>		NOTES: PM - Tom Long Pay Key - TC25719 N/A FEN 349916									
Relinquished by (Signature)			Date: <u>7/9/18</u>		Time: <u>1814</u>		Received by (Signature)			Date: <u>7/10/18</u>		Time: <u>07:25</u>											
Relinquished by (Signature)			Date: _____		Time: _____		Received by (Signature)			Date: _____		Time: _____											
Relinquished by (Signature)			Date: _____		Time: _____		Received by (Signature)			Date: _____		Time: _____											
Matrix Container WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - sludge O - Oil VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other																							

CHAIN OF CUSTODY RECORD

 APEX Office Location 606 S Rio Grande, Suite A Aztec, NM 87410 Project Manager <u>K Summers</u>		Laboratory: <u>Hall Environmental Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-2975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH GPO/PPG/MPO SO/S</div>		Lab use only Due Date: Temp. of coolers when received (C°): <u>0.3</u> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> Page <u>2</u> of <u>2</u>								
		Sampler's Name <u>Rancee Deechilly</u>		Sampler's Signature 										
Proj. No. <u>725040112442</u>		Project Name <u>Val Verde Plant - Water / Amine</u>		No/Type of Containers										
Matrix	Date	Time	CO ED P G	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)	
S	7/9/18	1005	X		S-27						1	X	1807337 - 0011 IO 7/10/18	
														
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush														
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES:						
		7/9/18	1322			7/9/18	1322	PM - Tom Long						
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	Pay Key - TC25719						
		7/9/18	1816			7/10/18	07:25	Non APE - N34996						
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:							

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



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

August 13, 2018

Kyle Summers

Apex Titan, Inc.

606 S. Rio Grande Unit A

Aztec, NM 87410

TEL: (214) 350-5469

FAX (214) 350-2914

RE: Val Verde Plant - Water Amine

OrderNo.: 1808317

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/4/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc. **Client Sample ID:** S-28
Project: Val Verde Plant - Water Amine **Collection Date:** 8/3/2018 9:30:00 AM
Lab ID: 1808317-001 **Matrix:** SOIL **Received Date:** 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2018 5:49:29 AM	39659
Surr: BFB	116	70-130		%Rec	1	8/10/2018 5:49:29 AM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	29	9.8		mg/Kg	1	8/10/2018 2:18:26 AM	39660
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2018 2:18:26 AM	39660
Surr: DNOP	86.2	50.6-138		%Rec	1	8/10/2018 2:18:26 AM	39660

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1808317

Date Reported: 8/13/2018

CLIENT: Apex Titan, Inc.

Client Sample ID: S-29

Project: Val Verde Plant - Water Amine

Collection Date: 8/3/2018 9:35:00 AM

Lab ID: 1808317-002

Matrix: SOIL

Received Date: 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2018 6:12:41 AM	39659
Surr: BFB	114	70-130		%Rec	1	8/10/2018 6:12:41 AM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	220	9.7		mg/Kg	1	8/10/2018 2:43:07 AM	39660
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2018 2:43:07 AM	39660
Surr: DNOP	90.4	50.6-138		%Rec	1	8/10/2018 2:43:07 AM	39660

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Apex Titan, Inc.

Client Sample ID: S-30

Project: Val Verde Plant - Water Amine

Collection Date: 8/3/2018 9:40:00 AM

Lab ID: 1808317-003

Matrix: SOIL

Received Date: 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2018 11:11:23 PM	39659
Surr: BFB	115	70-130		%Rec	1	8/10/2018 11:11:23 PM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	180	9.8		mg/Kg	1	8/11/2018 2:36:01 AM	39660
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/11/2018 2:36:01 AM	39660
Surr: DNOP	102	50.6-138		%Rec	1	8/11/2018 2:36:01 AM	39660

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

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

Analytical ReportLab Order **1808317**Date Reported: **8/13/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Apex Titan, Inc.**Client Sample ID:** S-31**Project:** Val Verde Plant - Water Amine**Collection Date:** 8/3/2018 9:45:00 AM**Lab ID:** 1808317-004**Matrix:** SOIL**Received Date:** 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/10/2018 11:34:33 PM	39659
Surr: BFB	115	70-130		%Rec	1	8/10/2018 11:34:33 PM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/10/2018 3:32:36 AM	39660
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2018 3:32:36 AM	39660
Surr: DNOP	85.3	50.6-138		%Rec	1	8/10/2018 3:32:36 AM	39660

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

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

Analytical ReportLab Order **1808317**Date Reported: **8/13/2018****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Apex Titan, Inc.**Client Sample ID:** S-32**Project:** Val Verde Plant - Water Amine**Collection Date:** 8/3/2018 9:50:00 AM**Lab ID:** 1808317-005**Matrix:** SOIL**Received Date:** 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/10/2018 11:57:28 PM	39659
Surr: BFB	114	70-130		%Rec	1	8/10/2018 11:57:28 PM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	23	10		mg/Kg	1	8/10/2018 3:57:22 AM	39660
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2018 3:57:22 AM	39660
Surr: DNOP	87.0	50.6-138		%Rec	1	8/10/2018 3:57:22 AM	39660

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1808317

Date Reported: 8/13/2018

CLIENT: Apex Titan, Inc.

Client Sample ID: S-33

Project: Val Verde Plant - Water Amine

Collection Date: 8/3/2018 9:55:00 AM

Lab ID: 1808317-006

Matrix: SOIL

Received Date: 8/4/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/11/2018 12:20:37 AM	39659
Surr: BFB	112	70-130		%Rec	1	8/11/2018 12:20:37 AM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	8/10/2018 4:22:02 AM	39660
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2018 4:22:02 AM	39660
Surr: DNOP	82.3	50.6-138		%Rec	1	8/10/2018 4:22:02 AM	39660

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808317

13-Aug-18

Client: Apex Titan, Inc.

Project: Val Verde Plant - Water Amine

Sample ID	MB-39660	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	39660	RunNo:	53282					
Prep Date:	8/8/2018	Analysis Date:	8/9/2018	SeqNo:	1756836	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.8	50.6	138			

Sample ID	LCS-39660	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	39660	RunNo:	53282					
Prep Date:	8/8/2018	Analysis Date:	8/10/2018	SeqNo:	1756837	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	4.1		5.000		81.3	50.6	138			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808317

13-Aug-18

Client: Apex Titan, Inc.
Project: Val Verde Plant - Water Amine

Sample ID	lcs-39659		SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS		Batch ID: 39659		RunNo: 53327					
Prep Date:	8/8/2018		Analysis Date: 8/10/2018		SeqNo: 1756042		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID	mb-39659		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 39659		RunNo: 53327					
Prep Date:	8/8/2018		Analysis Date: 8/10/2018		SeqNo: 1756043		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		115	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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



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

Sample Log-In Check List

Client Name: APEX Titan

Work Order Number: 1808317

RcptNo: 1

Received By: Erin Melendrez

8/4/2018 10:15:00 AM

Completed By: Ashley Gallegos

8/7/2018 10:01:54 AM

Reviewed By:

DF 8/7/2018

labeled by: JAB 08/07/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH: 08/07/18
(<2 or >12 unless noted)
Adjusted? JAB
Checked by: JAB

Special Handling (if applicable)

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


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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			
2	4.4	Good	Yes			
3	1.1	Good	Yes			
4	0.8	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX		Hall Environmental Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3475</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="transform: rotate(-90deg); transform-origin: left top; position: absolute; left: -50px; top: 50px;">TPH GRO/PROF/MRO SOILS</div>										Lab use only Due Date: _____ Temp. of coolers when received (C°): <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td> </tr> </table> Page <u>1</u> of <u>1</u> Cooler 1: <u>4.9-0.3 (CF)=1.4</u> Cooler 2: <u>4.7-0.3 (CF)=4.4</u> Cooler 3: <u>1.4-0.3 (CF)=1.1</u> Cooler 4: <u>1.1-0.3 (CF)=0.8</u> ENM 8/14/18					1	2	3	4	5
		1	2											3	4	5							
Office Location: <u>606 S Rio Grande, Suite A</u> <u>Aztec, NM 87410</u> Project Manager: <u>K. Summers</u>		Sampler's Name: <u>Ranee Deechilly</u> Sampler's Signature: <u>R. Deechilly</u>																					
Proj. No.: <u>725040112442</u>		Project Name: <u>Val Verde Plant - Water/Amine</u>				No/Type of Containers: _____																	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only) <div style="font-size: 1.2em;">1808317-001</div> <div style="font-size: 1.2em;">-002</div> <div style="font-size: 1.2em;">-003</div> <div style="font-size: 1.2em;">-004</div> <div style="font-size: 1.2em;">-005</div> <div style="font-size: 1.2em;">-006</div>										
S	8/3/18	930	X		S-28						1												X
S	8/3/18	935	X		S-29						1		X										
S	8/3/18	940	X		S-30						1		X										
S	8/3/18	945	X		S-31						1		X										
S	8/3/18	950	X		S-32						1		X										
S	8/3/18	955	X		S-33						1		X										
<div style="font-size: 2em; opacity: 0.5;">NFS</div>																							
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush																							
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:	NOTES: PM - Tom Long Pay Ref - TC 25719 Non AFE - N34996															
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:																
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:																
Relinquished by (Signature)		Date:	Time:	Received by (Signature)		Date:	Time:																

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



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

September 11, 2018

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

RE: Val Verde Plant - Water/Amine

OrderNo.: 1808I74

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/30/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1808174**

Date Reported: 9/11/2018

CLIENT: APEX TITAN

Client Sample ID: S-34

Project: Val Verde Plant - Water/Amine

Collection Date: 8/29/2018 10:15:00 AM

Lab ID: 1808174-001

Matrix: SOIL

Received Date: 8/30/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	29	9.7		mg/Kg	1	9/6/2018 2:19:19 AM	40136
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2018 2:19:19 AM	40136
Surr: DNOP	111	50.6-138		%Rec	1	9/6/2018 2:19:19 AM	40136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2018 2:38:07 PM	40113
Surr: BFB	96.4	15-316		%Rec	1	9/5/2018 2:38:07 PM	40113

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: APEX TITAN

Client Sample ID: S-35

Project: Val Verde Plant - Water/Amine

Collection Date: 8/29/2018 10:20:00 AM

Lab ID: 1808174-002

Matrix: SOIL

Received Date: 8/30/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	27	9.9		mg/Kg	1	9/6/2018 3:25:12 AM	40136
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2018 3:25:12 AM	40136
Surr: DNOP	113	50.6-138		%Rec	1	9/6/2018 3:25:12 AM	40136
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/5/2018 3:48:22 PM	40113
Surr: BFB	93.9	15-316		%Rec	1	9/5/2018 3:48:22 PM	40113

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808174

11-Sep-18

Client: APEX TITAN

Project: Val Verde Plant - Water/Amine

Sample ID	MB-40111		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	40111		RunNo:	53915				
Prep Date:	9/4/2018		Analysis Date:	9/5/2018		SeqNo:	1780862		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	11		10.00		110	50.6	138				

Sample ID	LCS-40111		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 40111		RunNo: 53915					
Prep Date:	9/4/2018		Analysis Date: 9/5/2018		SeqNo: 1780884		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		113	50.6	138			

Sample ID	MB-40136	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	40136		RunNo:	53915				
Prep Date:	9/4/2018	Analysis Date:	9/6/2018		SeqNo:	1780995		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	50.6	138			

Sample ID	LCS-40136		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 40136		RunNo: 53915					
Prep Date:	9/4/2018		Analysis Date: 9/6/2018		SeqNo: 1780996		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	70	130			
Surr: DNOP	5.3		5.000		106	50.6	138			

Sample ID	1808174-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-34		Batch ID:	40136		RunNo:	53915				
Prep Date:	9/4/2018		Analysis Date:	9/6/2018		SeqNo:	1781598		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	88	10	49.75	28.54	119	53.5	126				
Surr: DNOP	5.5		4.975		110	50.6	138				

Sample ID	1808174-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-34		Batch ID: 40136		RunNo: 53915					
Prep Date:	9/4/2018		Analysis Date: 9/6/2018		SeqNo: 1781599		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	9.8	48.97	28.54	146	53.5	126	13.3	21.7	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808174

11-Sep-18

Client: APEX TITAN

Project: Val Verde Plant - Water/Amine

Sample ID	1808174-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-34	Batch ID:	40136	RunNo:	53915					
Prep Date:	9/4/2018	Analysis Date:	9/6/2018	SeqNo:	1781599	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		4.897		112	50.6	138	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808174

11-Sep-18

Client: APEX TITAN

Project: Val Verde Plant - Water/Amine

Sample ID	MB-40113	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	40113	RunNo:	53917					
Prep Date:	9/4/2018	Analysis Date:	9/5/2018	SeqNo:	1780256	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.7	15	316			

Sample ID	LCS-40113	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	40113	RunNo:	53917					
Prep Date:	9/4/2018	Analysis Date:	9/5/2018	SeqNo:	1780257	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	75.9	131			
Surr: BFB	1000		1000		104	15	316			

Sample ID	1808174-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-34	Batch ID:	40113	RunNo:	53917					
Prep Date:	9/4/2018	Analysis Date:	9/5/2018	SeqNo:	1780259	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.83	0	108	77.8	128			
Surr: BFB	1100		993.0		107	15	316			

Sample ID	1808174-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	S-34	Batch ID:	40113	RunNo:	53917					
Prep Date:	9/4/2018	Analysis Date:	9/5/2018	SeqNo:	1780260	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.79	0	109	77.8	128	2.95	20	
Surr: BFB	1000		951.5		109	15	316	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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



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

Sample Log-In Check List

Client Name: APEX AZTEC

Work Order Number: 1808174

RcptNo: 1

Received By: Anne Thorne

8/30/2018 7:00:00 AM

Completed By: Ashley Gallegos

8/31/2018 11:13:40 AM

Reviewed By: ENM

8/31/18 Labeled by: *[Signature]* 08/31/18

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)
Adjusted? *[Signature]*

Checked by: *[Signature]*

Special Handling (if applicable)

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


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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

CHAIN OF CUSTODY RECORD

 APEX Office Location _____ <u>606 S Rio Grande, Suite A</u> <u>Aztec, NM 87410</u> Project Manager <u>K. Summers</u>		Hall Environmental Laboratory: <u>Analysis Laboratory</u> Address: <u>4901 Hawkins NE</u> <u>Albuquerque, NM 87109</u> Contact: <u>A. Freeman</u> Phone: <u>505-345-3975</u> PO/SO #: <u>See notes</u>		ANALYSIS REQUESTED <div style="transform: rotate(-90deg); transform-origin: center;">TPH CRO/DRO/MRO sed</div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>1.1</u> Page <u>1</u> of <u>1</u>									
		Sampler's Name <u>Ranee Deechilly</u> Sampler's Signature <u>[Signature]</u>													
Proj. No. <u>725040112442</u> Project Name <u>Val Verde Plant - water/Amine</u> No/Type of Containers _____															
Matrix	Date	Time	Cool	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)		
S	8/29/18	1015	X		S-34						1		X	1808I74-001 -002	
S	8/29/18	1020	X		S-35						1		X		
<div style="transform: rotate(-30deg); transform-origin: center; opacity: 0.5;">MS</div>															
Turn around time <input checked="" type="checkbox"/> Normal <input type="checkbox"/> 25% Rush <input type="checkbox"/> 50% Rush <input type="checkbox"/> 100% Rush															
Relinquished by (Signature)		Date: <u>8/29/18</u>		Time: <u>1312</u>		Received by (Signature)		Date: <u>8/29/18</u>		Time: <u>1312</u>		NOTES: PM - Tom Long Pay Key - TC 25719 Non AFE - N34996			
Relinquished by (Signature)		Date: <u>8/29/18</u>		Time: <u>1817</u>		Received by (Signature)		Date: <u>8/30/18</u>		Time: <u>0700</u>					
Relinquished by (Signature)		Date: _____		Time: _____		Received by (Signature)		Date: _____		Time: _____					
Relinquished by (Signature)		Date: _____		Time: _____		Received by (Signature)		Date: _____		Time: _____					
Matrix		WW - Wastewater		W - Water		S - Soil		SD - Solid		L - Liquid		A - Air Bag		C - Charcoal tube	
Container		VOA - 40 ml vial		A/G - Amber / Or Glass 1 Liter		250 ml - Glass wide mouth		P/O - Plastic or other		SL - sludge		O - Oil			